

Autophagy

Antibodies

Quality Antibodies
Quality Results





The Company

GeneTex produces high quality antibodies validated through extensive research, development, and testing. Our staff and researchers have collectively earned a trusted reputation from the research community for the quality and reliability of our antibodies. The secret to our success is the complementation of scientific expertise and production mastery in our state-of-the-art laboratory and animal facility.

Our facility provides large-scale antibody production capabilities, which employ highly specific antigen affinity purification. This has facilitated the establishment of a comprehensive antibody collection covering a wide spectrum of research fields.

Because of GeneTex's extensive experience in antibody manufacturing, we are uniquely able to serve the demands of the scientific community by providing accurate technical support and reliable customer service.



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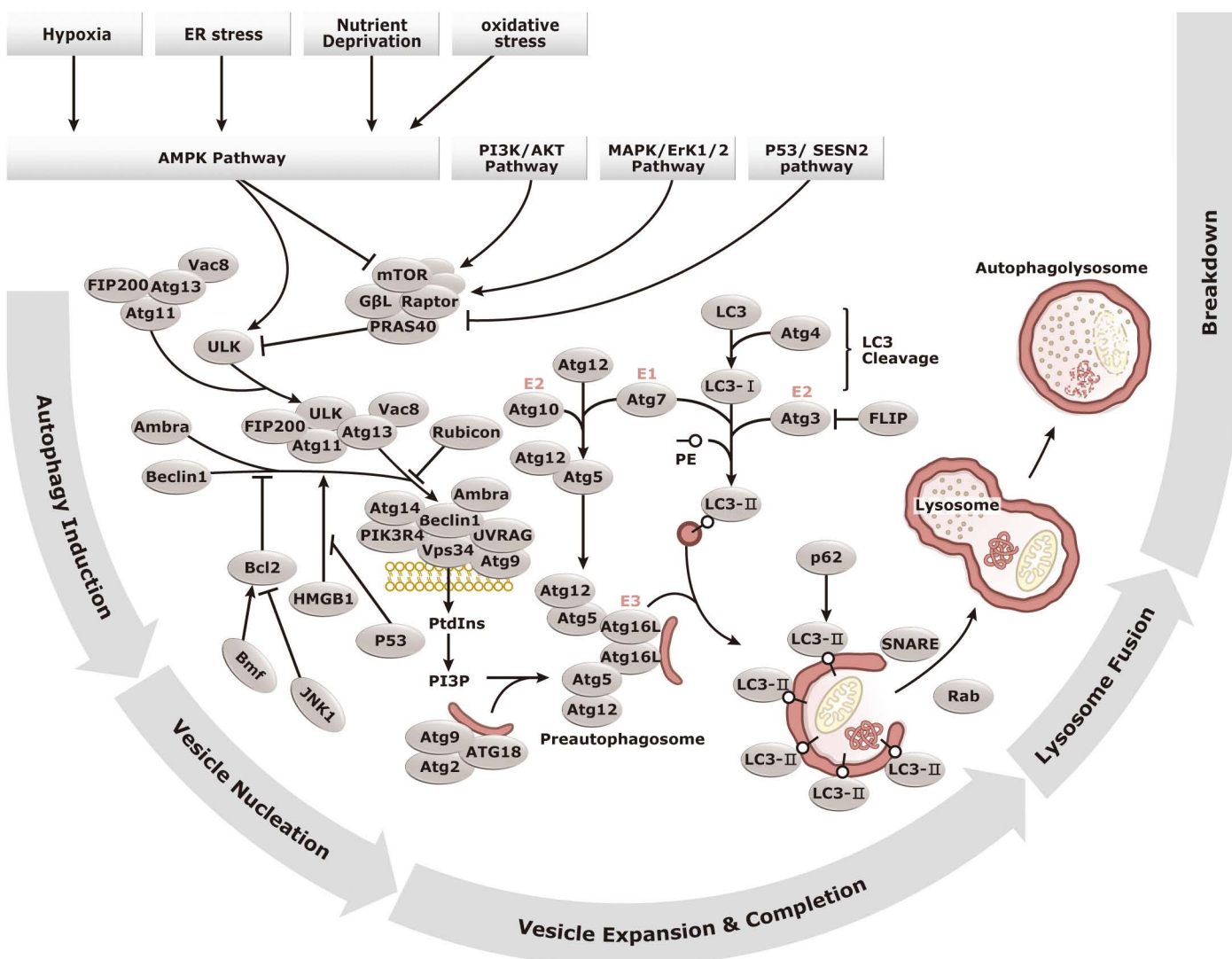
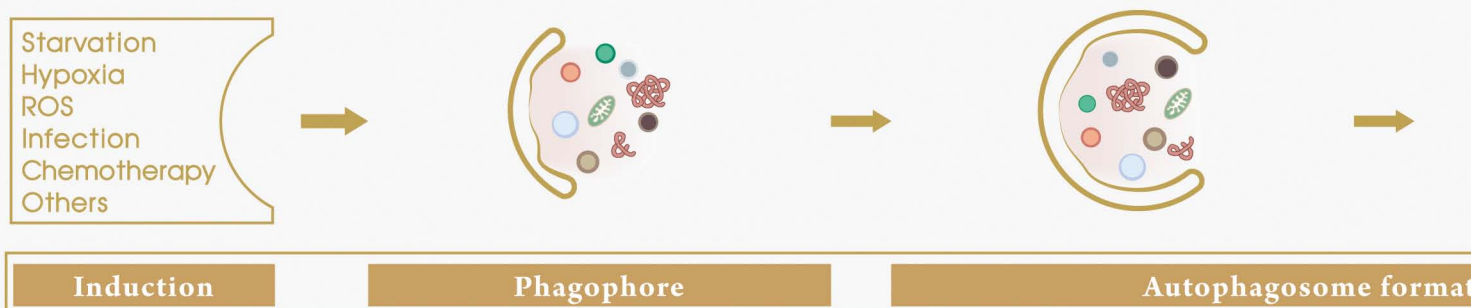
Application Key

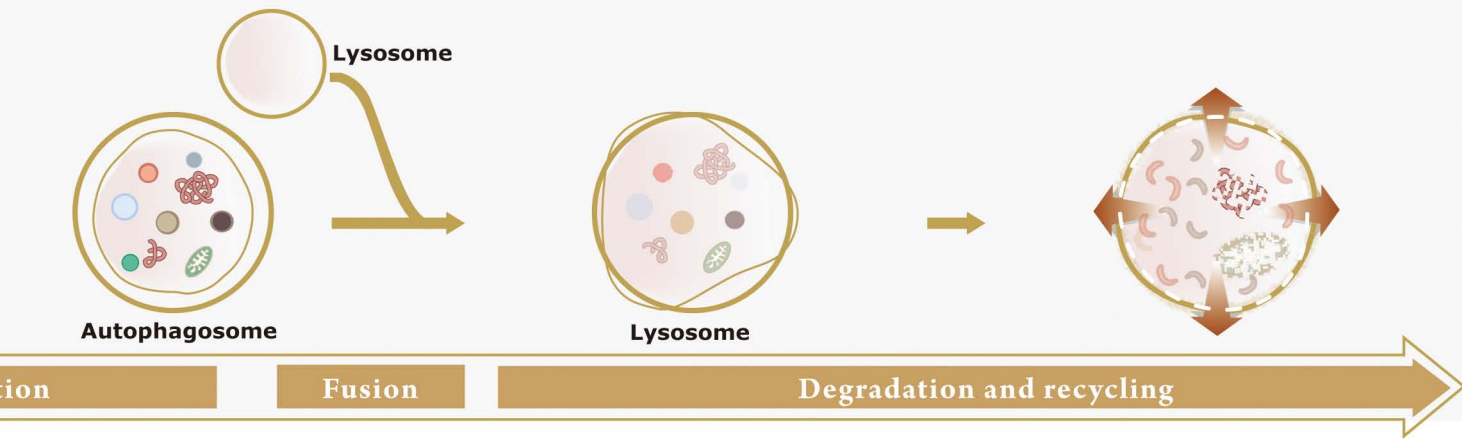
ELISA – Enzyme-linked immunosorbent assay
FACS – Fluorescence-activated cell sorting
FuncS – Functional assay
ICC/IF – Immunocytochemistry/Immunofluorescence
IHC – Immunohistochemistry
IHC-Fr – Immunohistochemistry frozen sections
IHC-P – Immunohistochemistry paraffin-embedded sections
Inhib – Inhibition assay
IP – Immunoprecipitation
Neut – Neutralizing
Puri – Purification
WB – Western blot

Host & Reactivity Key

Ba – Baboon
Cat – Cat
Chk – Chicken
Cham – Chimpanzee
Cow – Cow
Dog – Dog
Gpig – Guinea pig
Gt – Goat
Hm – Hamster
Hu – Human
Hr – Horse
Mk – Monkey
Ms – Mouse
Pig – Pig
Rat – Rat
Rb – Rabbit
Sh – Sheep
Zfsh – Zebrafish

Autophagy Overview





Autophagy is the process of self-cannibalization of cellular proteins or organelles. It plays a critical role in cellular homeostasis by scavenging macromolecules in response to nutrient deprivation and by facilitating the removal of misfolded protein aggregates. During the process, the targeted constituents are wrapped up by isolating vesicles called autophagosomes. The autophagosome is a double-membrane vesicle formulated through the process triggered by LC3 and Atg16L-Atg5-Atg12 complex, in conjugation with SQSTM1 (p62) that mediates salvage enclosure. Following by the fusion of lysosome, the salvages then proceed to degradation and recycling.

Despite its simplicity, accumulating studies have demonstrated autophagy as a key process in regulating many different diseases, including neurodegeneration, cardiac myopathy, autoimmune disease and cancer. The role of autophagy in cancer is complex and paradoxical. While autophagic deficiency has been shown to promote tumorigenesis in animal models, autophagy may actually support tumor growth by enhancing cancer cell survival in the face of nutrient depletion or accumulation of toxic molecules.

Antibody Panel for Autophagy (GTX300103)

Citation

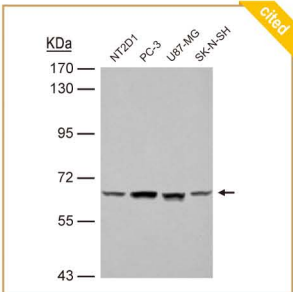
Cat. No.	Product	Application	Package
GTX127375	LC3B antibody	FACS, ICC/IF, IP, WB	10 µl
GTX100685	SQSTM1 antibody [N3C1], Internal	FACS, ICC/IF, IHC-P, IP, WB	10 µl
GTX213110-01	Rabbit IgG antibody (HRP)	Dot, ELISA, WB	25 µl

Autophagy Marker Antibody Panel (GTX300090)

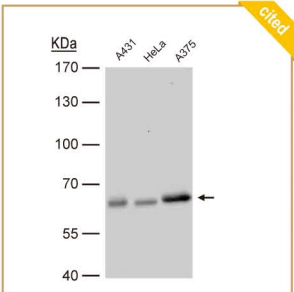
Citation

Cat. No.	Product	Application	Package
GTX631396	Beclin 1 antibody [GT5811]	WB	25 µl
GTX127375	LC3B antibody	FACS, ICC/IF, IP, WB	25 µl
GTX100685	SQSTM1 antibody [N3C1], Internal	FACS, ICC/IF, IHC-P, IP, WB	25 µl
GTX124181	ATG12 antibody	IHC-P, IP, WB	25 µl
GTX213110-01	Rabbit IgG antibody (HRP)	Dot, ELISA, WB	25 µl

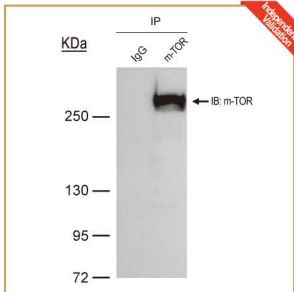
Induction of Autophagy



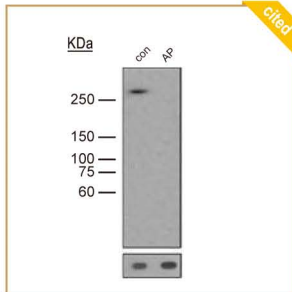
AMPK alpha 1 antibody (GTX112998)
WB analysis of AMPK α 1 protein in the indicated cell lines.



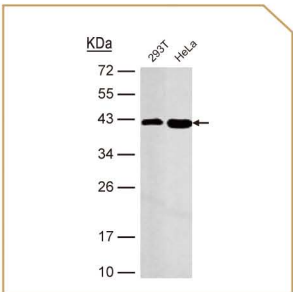
AMPK alpha 2 antibody (GTX103487)
WB analysis of AMPK α 2 protein in the indicated cell lines.



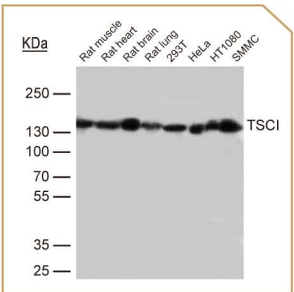
mTOR antibody [C3], C-term (GTX101557)
IP analysis of mTOR protein in 293T cell extract.



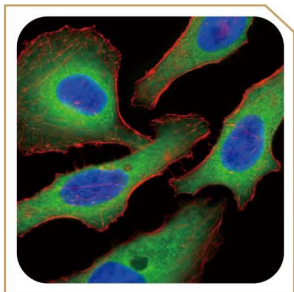
mTOR (phospho Ser2448) antibody [EPR426(2)] (GTX62472)
WB analysis of mTOR pSer2448 modification in 293T cells treated w/o alkaline phosphatase.



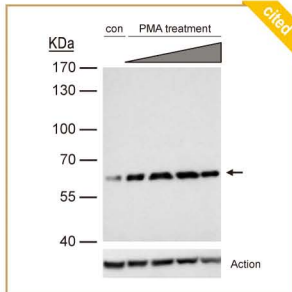
PRAS40 antibody (GTX118391)
WB analysis of PRAS40 protein in the indicated cell lines.



TSC1 antibody (GTX12288)
WB analysis of TSC1 protein in the indicated cell lines.



TSC2 antibody (GTX81899)
ICC/IF analysis of TSC2 protein in HeLa cells.



Akt1/2/3 (pSer473/474/472) antibody (GTX128414)
WB analysis of Akt1/2/3 (pSer 473/474/472) protein in MCF-7 cells treated with PMA.

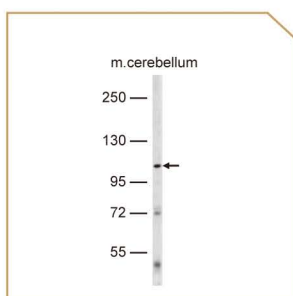
Reference

Cat. No.	Product	Host & Clonality	Reactivity	Application
GTX52373	AMPK alpha antibody	Rb pAb	Hu, Ms, Rat	IHC, WB
C GTX112998	AMPK alpha 1 antibody	Rb pAb	Hu	IHC-P, IP, WB
GTX23759	AMPK alpha 1 antibody	Rb pAb	Hu, Cow, Rat	IP, WB
GTX81576	AMPK alpha 1 antibody	Rb pAb	Hu	FACS, IHC, IHC-P, WB
GTX50705	AMPK alpha1 antibody	Rb pAb	Hu, Ms, Rat	IHC, IHC-P, WB
GTX60403	AMPK alpha 1 antibody [2B7]	Ms mAb	Hu, Ms, Mk, Rat	ELISA, FACS, ICC/IF, IHC-P, WB
GTX61229	AMPK alpha 1 antibody [Y365], C-term	Rb mAb	Hu, Ms, Rat	FACS, IHC-P, IP, WB
GTX50863	AMPK alpha 1/2 antibody	Rb pAb	Hu, Ms, Rat	ICC/IF, IHC, IHC-P, WB
GTX42789	AMPK alpha 1/2 antibody [34.2]	Ms mAb	Hu, Ms, Dm, Rat, Vt	ELISA, ICC/IF, IHC-Fr, IP, WB
GTX42788	AMPK alpha 1/2 antibody [84.1]	Ms mAb	Dm	ELISA, ICC/IF, IHC-Fr, IP, WB
C GTX103487	AMPK alpha 2 antibody	Rb pAb	Hu, Ms	ICC/IF, IHC-P, IP, WB
GTX23760	AMPK alpha 2 antibody	Rb pAb	Hu, Cow, Rat	IP, WB
GTX113251	AMPK alpha 2 antibody [N3C2], Internal	Rb pAb	Hu, Ms	ELISA, IHC-P, WB
GTX88046	AMPK alpha 2 antibody, Internal	Gt pAb	Hu, Ms, Rat	ELISA, WB
GTX106705	AMPK beta 1 antibody	Rb pAb	Hu	IHC-P, WB
C GTX101661	AMPK gamma 1 antibody	Rb pAb	Hu, Ms	IP, WB
GTX109105	AMPK gamma 2 antibody	Rb pAb	Hu	ICC/IF, IHC-P, WB
C GTX114178	AMPK gamma 2 antibody [C2C3], C-term	Rb pAb	Hu, Ms	IHC-P, WB
GTX51582	AMPK gamma 3 antibody	Rb pAb	Hu	ELISA, IHC-P
GTX79143	AMPK1 (phospho Thr174) antibody	Rb pAb	Hu, Ms, Rat	IHC

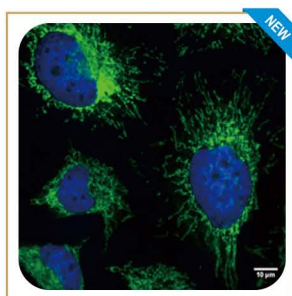
Reference

Cat. No.	Product	Host & Clonality	Reactivity	Application
GTX79142	AMPK1/AMPK2 (phospho Ser485/Ser491) antibody	Rb pAb	Hu, Ms, Rat	IHC, IHC-P, WB
GTX30766	AMPK alpha (phospho Thr172) antibody	Rb pAb	Hu, Ms, Mk, Rat	ELISA, WB
GTX52341	AMPK alpha (phospho Thr172) antibody	Rb pAb	Hu, Ms, Rat	IHC, WB
GTX50224	AMPK alpha 1 (phospho Ser487) antibody	Rb pAb	Hu, Ms, Rat	ICC/IF, IHC, IHC-P, WB
GTX79141	AMPK beta 1 (phospho Ser182) antibody	Rb pAb	Hu, Ms, Rat	ELISA, IHC, IHC-P, WB
GTX101557	mTOR antibody [C3], C-term	Rb pAb	Hu, Ms, Rat	ICC/IF, IHC-P, IP, WB, ChIP assay
C GTX101558	mTOR antibody [C1], Internal	Rb pAb	Hu, Ms, Rat	WB
GTX124770	Mtor antibody	Rb pAb	Zfish	IHC-P, WB
GTX22732	mTOR antibody	Rb pAb	Hu, Rat	ICC/IF, IP, WB
GTX48628	mTOR antibody	Rb pAb	Hu, Ms, Dog, Rat, Zfish	IHC-P, WB
GTX50258	mTOR (phospho Ser2448) antibody	Rb pAb	Hu, Ms, Rat	ICC/IF, IHC-P, WB
GTX50541	mTOR antibody	Rb pAb	Hu, Ms, Rat	ICC/IF, IHC, IHC-P, WB
C GTX62472	mTOR (phospho Ser2448) antibody [EPR426(2)]	Rb mAb	Hu, Ms, Pig	IHC-P, WB
GTX630198	mTOR antibody [GT649]	Ms mAb	Hu	WB
GTX630199	mTOR antibody [GT6611]	Ms mAb	Hu	ICC/IF, WB
GTX630200	mTOR antibody [GT778]	Ms mAb	Hu	WB
GTX12288	TSC1 antibody	Rb pAb	Hu, Ms, Rat	IHC-P, WB
GTX89366	TSC1 antibody, C-term	Gt pAb	Hu	IHC, IHC-P, WB
GTX78927	TSC2 (phospho Ser1254) antibody	Rb pAb	Hu	ELISA, IHC, IHC-P, WB
GTX81899	TSC2 antibody	Rb pAb	Hu	ELISA, ICC/IF, IHC, IHC-P, WB
GTX85619	TSC2 (phospho Ser664) antibody	Rb pAb	Hu	ICC/IF, IHC-P
C GTX121937	AKT antibody [N3C2], Internal	Rb pAb	Hu, Ms, Rat	ICC/IF, IHC, IHC-P, IP, WB
C GTX110613	AKT1 antibody	Rb pAb	Hu, Ms	ICC/IF, IHC-P, IP, WB
GTX82762	AKT1 antibody [3A3]	Ms mAb	Hu, Ms, Mk	ELISA, WB
GTX11275	AKT1 antibody [IML-26]	Ms mAb	Hu, Ms, Chk, Rat	WB
GTX101074	AKT1 antibody [N3C3]	Rb pAb	Hu	ICC/IF, IHC-P, WB
GTX10438	AKT1 antibody [PKB-175]	Ms mAb	Hu, Ms, Rat	WB
C GTX111612	AKT2 antibody	Rb pAb	Hu	ICC/IF, IHC-P, WB
GTX128457	AKT2 antibody	Rb pAb	Ms, Rat	WB
GTX13991	AKT2 antibody	Chk pAb	Hu	ELISA, WB
GTX50494	AKT2 antibody	Rb pAb	Hu, Ms, Rat	IHC, IHC-P, WB
GTX83257	AKT2 antibody [1B6]	Ms mAb	Hu, Mk, Rat	ELISA, ICC/IF, IHC-P, WB
GTX84908	AKT2 antibody [4H7]	Ms mAb	Hu	FACS, ICC/IF, IHC, IHC-P, WB
GTX113311	AKT3 antibody [N2C2], Internal	Rb pAb	Hu, Ms, Rat	ICC/IF, WB
C GTX113312	AKT3 antibody	Rb pAb	Hu, Ms	ICC/IF, IHC-P, WB
GTX127923	AKT3 antibody	Rb pAb	Zfish	IHC-Wm
GTX89647	AKT3 antibody, Internal	Gt pAb	Hu, Ms, Rat	WB
GTX50869	AKT (phospho Tyr315/316/312) antibody	Rb pAb	Hu, Ms, Rat	ICC/IF, IHC, IHC-P, WB
C GTX128414	AKT (phospho Ser473/474/472) antibody	Rb pAb	Hu	IP, WB
C GTX28932	AKT (phospho Ser473) antibody	Rb pAb	Hu, Ms	ICC/IF, IHC-P, WB
GTX50128	AKT (phospho Ser473) antibody	Rb pAb	Hu, Ms, Rat	IHC, IHC-P, WB
C GTX59559	AKT (phospho Ser473) antibody	Rb pAb	Hu, Ms, Rat	IP, WB
C GTX28933	AKT (phospho Thr308) antibody	Rb pAb	Hu, Ms	ELISA, WB
GTX52321	AKT (phospho Thr308) antibody	Rb pAb	Hu, Ms, Rat	IHC, WB
GTX79150	AKT (phospho Thr308) antibody	Rb pAb	Hu	ICC/IF, IHC, IHC-P, WB
C GTX11901	AKT1 (phospho Ser473) antibody [104A282]	Ms mAb	Hu, Ms	ICC/IF, IP, WB
GTX50339	AKT1 (phospho Thr450) antibody	Rb pAb	Hu, Ms, Rat	ICC/IF, IHC, IHC-P, WB
GTX50186	AKT2 (phospho Ser474) antibody	Rb pAb	Hu, Ms, Rat	IHC, IHC-P, WB

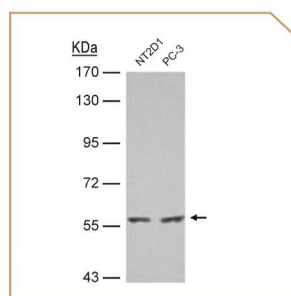
Phagophore



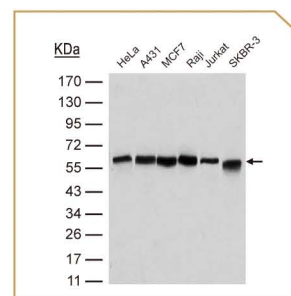
ULK1 antibody (GTX80551)
WB analysis of ULK1 protein in mouse cerebellum tissue.



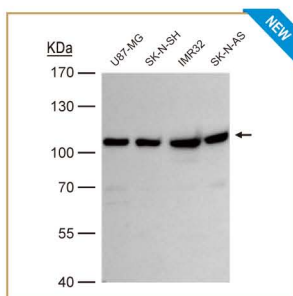
FIP200 antibody (GTX129093)
ICC/IF analysis of FIP200 expression in HeLa cells.



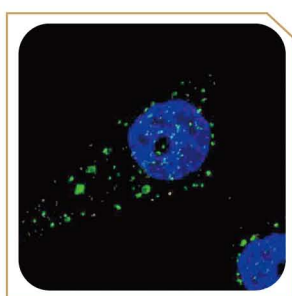
ATG13 antibody (GTX123970)
WB analysis of ATG13 protein in the indicated cell lines.



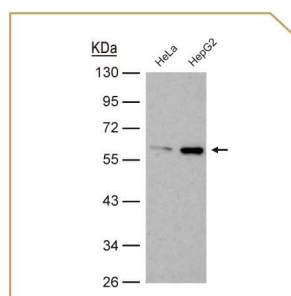
Beclin 1 antibody [2A4] (GTX60413)
WB analysis of Beclin 1 protein in the indicated cell lines.



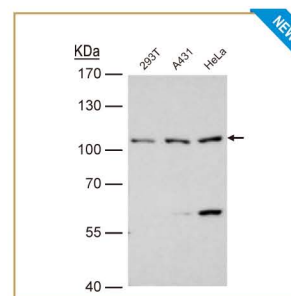
VPS34 antibody (GTX129528)
WB analysis of VPS34 protein in the indicated cells.



UVRAG antibody, C-term (GTX16333)
ICC/IF analysis of UVRAG expression in U251 cells.



ATG14 antibody (GTX128166)
WB analysis of ATG14 protein in the indicated cell lines.

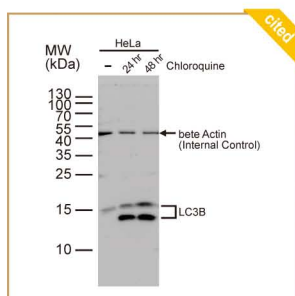


ATG9A antibody (GTX128427)
WB analysis of ATG9A protein in the indicated cell lines.

Reference

Cat. No.	Product	Host & Clonality	Reactivity	Application
GTX129487	AMBRA1 antibody	Rb pAb	Hu	WB
GTX116246	AMBRA1 antibody	Rb pAb	Hu	IHC-P, WB
GTX123970	ATG13 antibody	Rb pAb	Hu, Ms	IHC-P, WB
GTX85183	ATG13 antibody	Rb pAb	Hu, Ms, Rat	ELISA, ICC/IF, IHC, WB
GTX128166	ATG14 antibody	Rb pAb	Hu	IHC-P, WB
GTX119950	ATG14 antibody	Rb pAb	Hu	WB
GTX128427	ATG9A antibody	Rb pAb	Hu, Ms, Rat	ICC/IF, IHC-P, IP, WB
GTX31415	ATG101 antibody	Rb pAb	Hu, Ms	ELISA, ICC/IF, IHC, IHC-P, WB
GTX22273	Bak antibody	Gt pAb	Hu	ELISA, WB
GTX100063	BAK antibody [N1N2], N-term	Rb pAb	Hu	IHC-P, WB
GTX21905	Bcl-2 (phospho Ser70) antibody	Rb pAb	Hu	ELISA, IHC-P
GTX21908	Bcl-2 (phospho Thr56) antibody	Rb pAb	Hu	IHC, IHC-P, WB
GTX16120	Bcl-2 antibody	Shp pAb	Hu, Dog, Rat	ICC/IF, IP, WB
GTX10798	Bcl-2 antibody [BL-2]	Ms mAb	Hu	ICC/IF, IHC-F, IHC-P, WB
GTX61005	Bcl-2 antibody [E17]	Rb mAb	Hu, Ms, Rat	FACS, ICC/IF, IHC-P, IP, WB
GTX100064	Bcl-2 antibody [N1N2], N-term	Rb pAb	Hu, Ms, Rat	IHC-P, WB
GTX37770	Beclin 1 antibody	Rb pAb	Hu, Ms, Rat	ELISA, IHC-P, WB
GTX60413	Beclin 1 antibody [2A4]	Ms mAb	Hu	ELISA, FACS, IHC-P, WB
GTX129093	FIP200 antibody	Rb pAb	Hu	ICC/IF, WB
GTX107387	FIP200 antibody [N1N2], N-term	Rb pAb	Hu, Ms	ICC/IF, WB
GTX80551	ULK1 antibody	Rb pAb	Hu, Ms	ELISA, FACS, IHC, IHC-P, WB
GTX16333	UVRAG antibody, C-term	Rb pAb	Hu, Ms	ICC/IF, IHC, IHC-P, WB
GTX129528	VPS34 antibody	Rb pAb	Hu	IP, WB
GTX107572	VPS34 antibody	Rb pAb	Hu	ICC/IF, WB

Autophagosome Formation



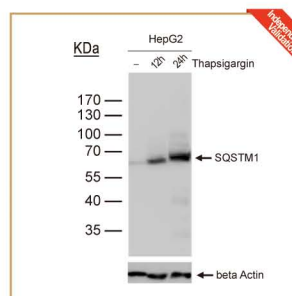
LC3B antibody (GTX127375)

WB analysis of LC3B protein in HeLa cells treated with chloroquine.



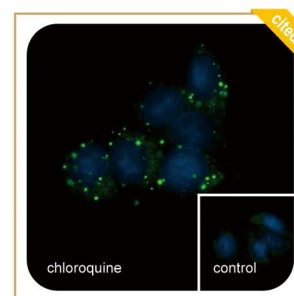
LC3B antibody (GTX127375)

ICC/IF analysis of LC3B expression in HeLa cells treated with chloroquine.



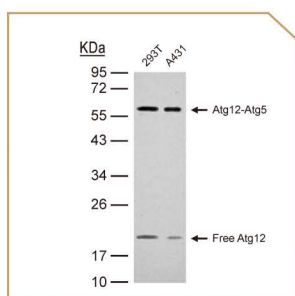
SQSTM1 antibody [GT1478] (GTX629890)

WB analysis of SQSTM1 (p62) protein in HepG2 cells treated with thapsigargin.



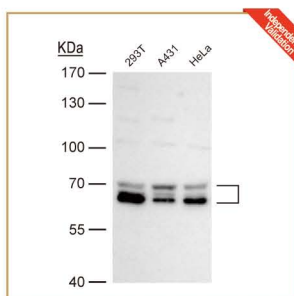
ATG5 antibody (GTX113309)

ICC/IF analysis of ATG5 expression in HepG2 cells treated with thapsigargin.



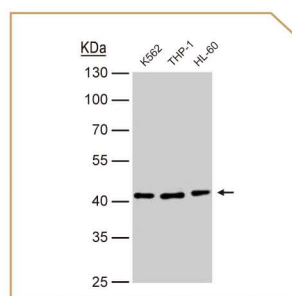
ATG12 antibody (GTX124181)

WB analysis of ATG12 protein in the indicated cell lines.



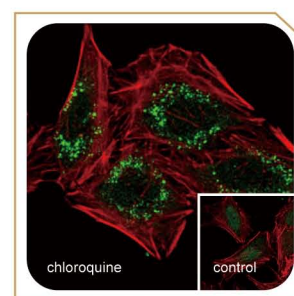
ATG16L1 antibody (GTX129098)

WB analysis of ATG16L1 protein in the indicated cell lines.



ATG3 antibody (GTX128065)

WB analysis of ATG3 protein in the indicated cell lines.



GABARAPL1 antibody (GTX129277)

ICC/IF analysis of GABARAPL1 expression in HeLa cells treated with chloroquine.

Reference

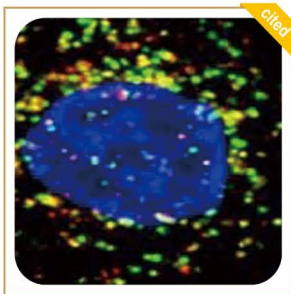
Cat. No.	Product	Host & Clonality	Reactivity	Application
GTX31329	ATG10 antibody	Rb pAb	Hu	ELISA, WB
GTX124181	ATG12 antibody	Rb pAb	Hu, Ms, Rat	IHC-P, IP, WB
C GTX62935	ATG12 antibody [EPR4800], C-term	Rb mAb	Hu	ICC/IF, IHC-P, WB
GTX629815	ATG12 antibody [GT166]	Ms mAb	Hu, Ms	ICC/IF, WB
GTX129098	ATG16L1 antibody	Rb pAb	Hu, Ms	ICC/IF, IHC-P, WB
GTX30072	ATG16L1 antibody	Rb pAb	Hu, Ms, Rat	ICC/IF, IHC, IHC-P, IP, WB
GTX131503	ATG2A antibody	Rb pAb	Hu	IP, WB
GTX132307	ATG2B antibody	Rb pAb	Hu	WB
GTX128065	ATG3 antibody	Rb pAb	Hu, Ms, Rat	WB
GTX30073	ATG3 antibody	Rb pAb	Hu, Ms, Rat	IHC, IHC-P, WB
GTX87155	ATG4A antibody	Rb pAb	Hu, Ms	ELISA, ICC/IF, IHC, IHC-P
C GTX62753	ATG4A antibody [EPR4122]	Rb mAb	Hu, Ms, Rat	IHC-P, IP, WB
GTX115678	ATG4B antibody	Rb pAb	Hu	IHC-P, WB
GTX129488	ATG4C antibody	Rb pAb	Hu	IP, WB
GTX106114	ATG4D antibody [N3C3]	Rb pAb	Hu, Ms	IHC-P
C GTX113309	ATG5 antibody	Rb pAb	Hu	ICC/IF, WB
C GTX102361	ATG5 antibody [N1C3]	Rb pAb	Ms	WB
GTX61647	ATG7 antibody [EP1759Y], C-term	Rb mAb	Hu	FACS, ICC/IF, IHC-P, IP, WB
C GTX113613	ATG7 antibody [N3C2], Internal	Rb pAb	Ms	WB
GTX129277	GABARAPL1 antibody	Rb pAb	Hu	ICC/IF, WB
GTX80541	GABARAPL1 antibody	Rb pAb	Hu	ELISA, FACS, IHC, IHC-P, WB
GTX102006	GABARAPL2 antibody	Rb pAb	Hu	IHC-P, WB

Autophagosome Formation

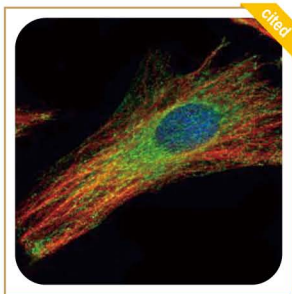
Reference

Cat. No.	Product	Host & Clonality	Reactivity	Application
C GTX17380	LC3 antibody [166AT1234]	Ms mAb	Hu, Ms, Rat	ELISA, ICC/IF, IHC, IHC-P, WB
GTX50635	LC3A antibody	Rb pAb	Hu, Ms, Rat	ICC/IF, WB
C GTX127375	LC3B antibody	Rb pAb	Hu, Ms, Pig, Rat	FACS, ICC/IF, IP, WB
GTX632501	LC3B antibody [GT3612]	Ms mAb	Hu	WB
C GTX100685	SQSTM1 antibody [N3C1], Internal	Rb pAb	Hu, Ms, Rat, Zfsh, Honeybee	FACS, ICC/IF, IHC-P, IP, WB
GTX629890	SQSTM1 antibody [GT1478]	Ms mAb	Hu, Ms	FACS, ICC/IF, WB
GTX128171	SQSTM1 (phospho Ser403) antibody	Rb pAb	Hu, Ms, Rat	FACS, IHC-P, WB
GTX128167	WIPI1 antibody	Rb pAb	Hu, Ms	WB
GTX129279	WIPI1 antibody	Rb pAb	Hu	WB
GTX122101	WIPI2 antibody	Rb pAb	Hu	ICC/IF, IHC-P, WB

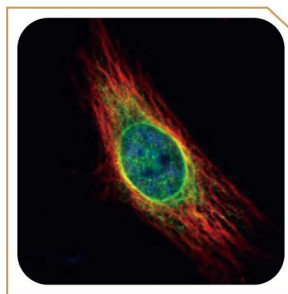
Fusion



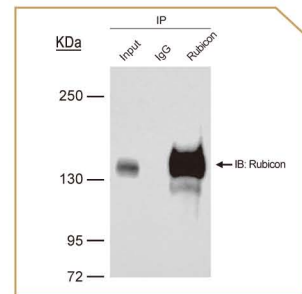
LAMP1 antibody (GTX19294)
ICC/IF analysis of LAMP1 expression in HeLa cells.



LAMP2 antibody (GTX103214)
ICC/IF analysis of LAMP2 protein in HeLa cells.



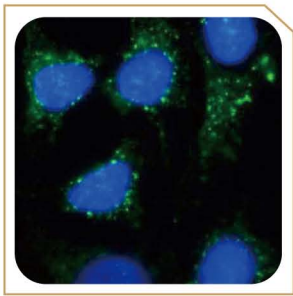
Cathepsin S antibody (GTX114350)
ICC/IF analysis of Cathepsin S expression in HeLa cells.



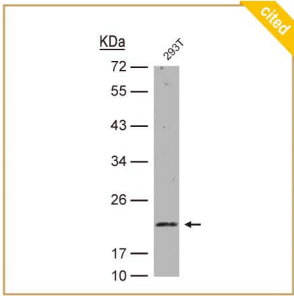
Rubicon antibody (GTX129096)
IP analysis of Rubicon protein in 293T cell extracts.

Reference

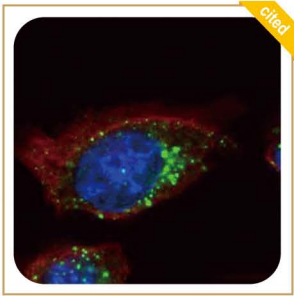
Cat. No.	Product	Host & Clonality	Reactivity	Application
GTX112668	Cathepsin A antibody	Rb pAb	Hu, Rat	IHC-P, WB
GTX63008	Cathepsin B antibody [EPR4323]	Rb mAb	Hu	ICC/IF, IHC-P, IP, WB
C GTX62063	Cathepsin D antibody [EPR3057Y]	Rb mAb	Hu, Ms	FACS, ICC/IF, IHC-P, IP, WB
GTX103095	Cathepsin F antibody [N3C3]	Rb pAb	Hu	WB
GTX81488	Cathepsin K antibody, Internal	Rb pAb	Hu, Hm	ELISA, FACS, IHC, IHC-P, WB
GTX105671	Cathepsin O antibody [N1C3]	Rb pAb	Hu	ICC/IF, IHC-P, WB
GTX114350	Cathepsin S antibody	Rb pAb	Hu	ICC/IF, IHC-P, WB
GTX28219	CD63 antibody [MEM-259]	Ms mAb	Hu	FACS, ICC/IF, IHC-P, IP, WB
GTX41878	CD63 antibody [AD1]	Ms mAb	Rat	FACS, IHC-P, IP, WB
GTX79273	VAMP3 antibody	Rb pAb	Hu, Ms, Rat	ICC/IF, WB
C GTX101738	HGS antibody	Rb pAb	Hu	ICC/IF, WB
C GTX101718	HGS antibody [C2C3], C-term	Rb pAb	Hu, Ms, Rat	ICC/IF, IHC-P, WB
GTX89364	HRS / HGS antibody, Internal	Gt pAb	Hu	IHC, IHC-P
C GTX19294	LAMP1 antibody	Rb pAb	Hu, Ms	ICC/IF, WB
GTX42501	LAMP1 antibody [1D4B]	Rat mAb	Ms	FACS, ICC/IF, IHC-Fr, IP



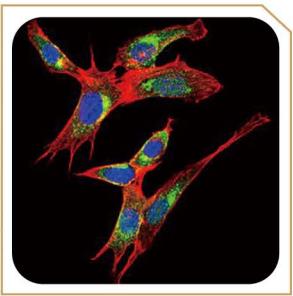
Rab7 antibody [Rab7-117] (GTX16196)
ICC/IF analysis of Rab7 expression in HeLa cells.



RAB11A antibody (GTX113301)
WB analysis of RAB11A protein in 293T cells.



HGS antibody [C2C3], C-term (GTX101718)
ICC/IF analysis of HGS protein in A431 cells.

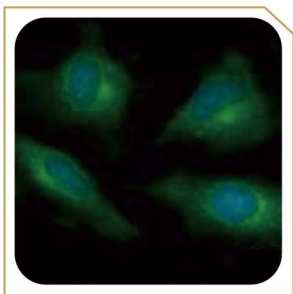


VAMP3 antibody (GTX79273)
ICC/IF analysis of VAMP3 protein in NIH3T3 cells.

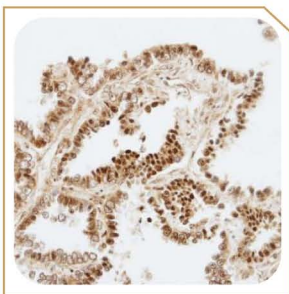
Reference

Cat. No.	Product	Host & Clonality	Reactivity	Application
C GTX13523	LAMP1 antibody [LY1C6]	Ms mAb	Hu, Ms, Rat, Hm	ICC/IF, IHC, IP, WB
C GTX103214	LAMP2 antibody	Rb pAb	Hu	ICC/IF, IHC-P, WB
GTX42499	LAMP2 antibody [AC17]	Ms mAb	Hu, Dog, Mink	FACS, ICC/IF, IP, WB
C GTX13524	LAMP2 antibody [GL2A7]	Rat mAb	Ms, Rb	ICC/IF, IP
GTX42498	LAMP2 antibody [M3/84]	Rat mAb	Ms	FACS, IHC-Fr, IHC-P, IP, WB
GTX111812	LAMP2 antibody [N2C2], Internal	Rb pAb	Hu	IHC-P, WB
GTX113301	RAB11A antibody	Rb pAb	Hu	WB
GTX22921	Rab11A antibody	Gt pAb	Hu, Ms	WB
GTX119559	RAB20 antibody [N1C3]	Rb pAb	Hu	ICC/IF, IHC-P, WB
GTX44911	RAB22A antibody, Internal	Rb pAb	Hu	WB
GTX82785	Rab25 antibody [3F12]	Ms mAb	Hu, Ms	ELISA, FACS, ICC/IF, IHC, IHC-P, WB
GTX83350	Rab25 antibody [3F12F3]	Ms mAb	Hu	ELISA, IHC, IHC-P, WB
GTX116390	RAB33B antibody [N2C3]	Rb pAb	Hu, Ms	IHC-P, WB
GTX87791	RAB34 antibody	Rb pAb	Hu	ELISA, IHC, IHC-P
GTX51060	RAB38 antibody	Rb pAb	Hu, Ms, Rat	ELISA, ICC/IF, IHC-F, IHC-P, IP, WB
C GTX13253	Rab5 antibody	Rb pAb	Hu, Ms, Cow, Dog, Mk, Pig, Rat, Gpig, Hm	ICC/IF, IHC, IP, WB
GTX109665	RAB5A antibody	Rb pAb	Hu, Ms	IHC-P, IP, WB
GTX16196	Rab7 antibody [Rab7-117]	Ms mAb	Hu, Ms, Chk, Mk, Rat, Bov	ELISA, ICC/IF, IP, WB
GTX130847	RAB7A antibody	Rb pAb	Hu	IHC-P, WB
GTX88822	RAB8A antibody, C-term	Gt pAb	Hu	WB
C GTX22810	Rab9 antibody [Mab9]	Ms mAb	Hu, Dog, Mk, Rat, Hm, NHuPrm, Bov	FACS, ICC/IF, IHC, IHC-P, IM, IP, WB
GTX87480	RABEP1 antibody	Rb pAb	Hu, Ms, Rat	ELISA, IHC, IHC-P
GTX87268	RABEP2 antibody	Rb pAb	Hu, Ms, Rat	ELISA, WB
GTX129096	Rubicon antibody	Rb pAb	Hu	IP, WB
GTX31593	Rubicon antibody	Rb pAb	Hu	ELISA, ICC/IF, IHC, IHC-P, WB
GTX79273	VAMP3 antibody	Rb pAb	Hu, Ms, Rat	ICC/IF, WB

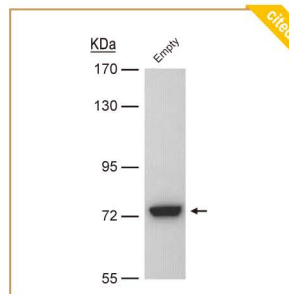
Degradation and recycling



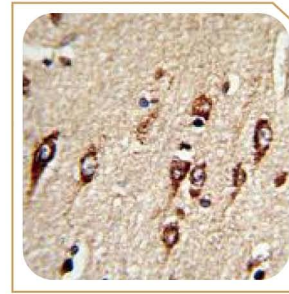
ATP6V1E1 antibody (GTX114056)
ICC/IF analysis of ATP6V1E1 protein in HeLa cells.



ZKSCAN3 antibody [N1C2] (GTX106039)
IHC-P analysis of ZKSCAN3 expression in human lung tissue.



SGSH antibody [C1C3] (GTX101700)
WB analysis of SGSH protein in Molt-4 cells.



HEXA antibody, N-term (GTX81638)
IHC-P analysis of HEXA expression in human brain tissue.

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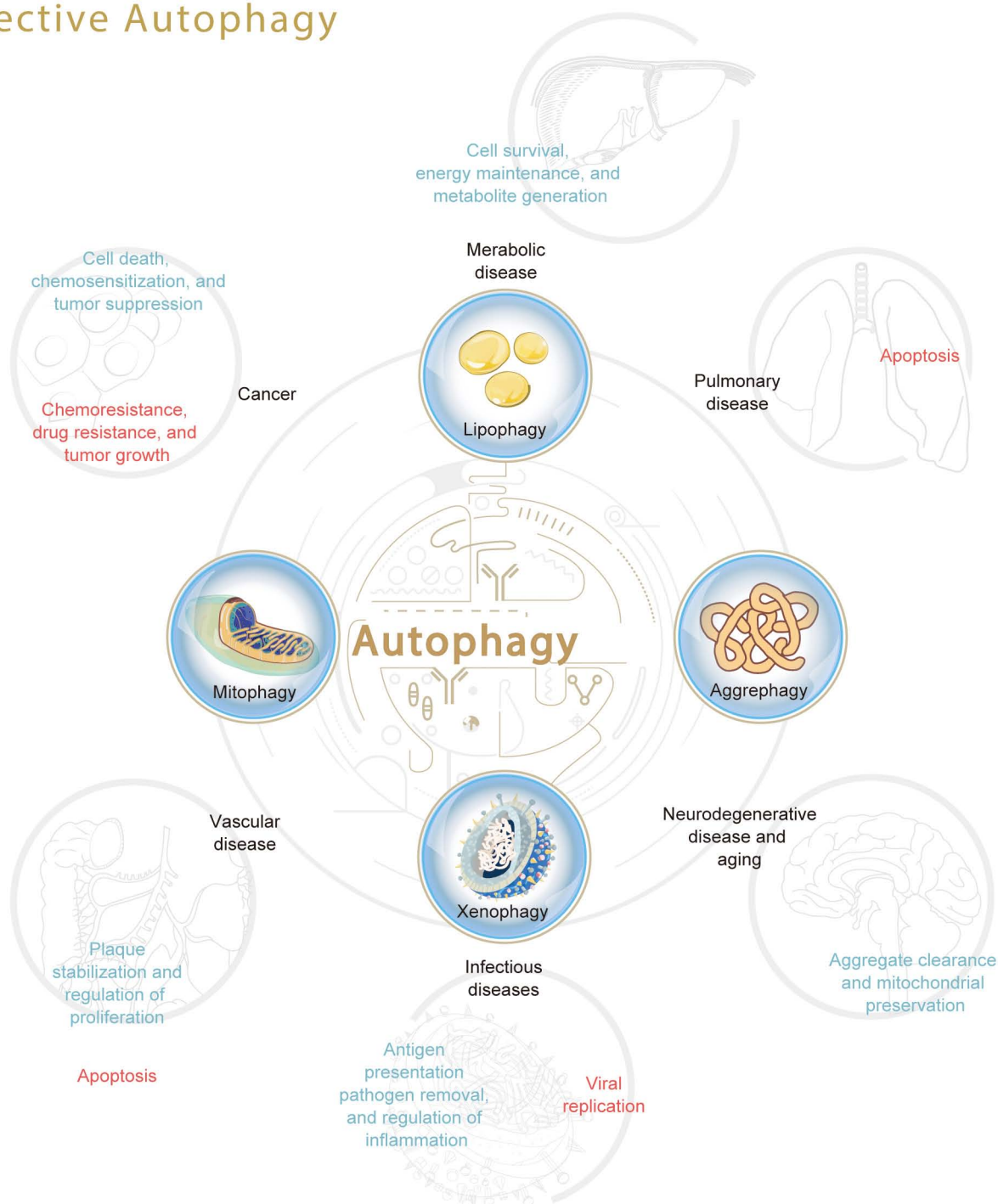
Cat. No.	Product	Host & Clonality	Reactivity	Application
GTX114056	ATP6V1E1 antibody	Rb pAb	Hu, Ms	ICC/IF, IHC-P, WB
GTX82325	ATP6V1E1 antibody	Chk pAb	Hu, Ms, Rat	WB
GTX101799	ATP6V1E1 antibody [N1C3]	Rb pAb	Hu, Ms	WB
GTX46909	HACE1 antibody, Internal	Rb pAb	Hu, Ms, Rat	WB
GTX60574	HEXA antibody [3F10]	Ms mAb	Hu	ELISA, FACS, WB
GTX53726	HEXA antibody [AT20F1]	Ms mAb	Hu	ELISA, WB
GTX81637	HEXA antibody, Internal	Rb pAb	Hu	ELISA, FACS, IHC, IHC-P, WB
GTX81638	HEXA antibody, N-term	Rb pAb	Hu, Ms	ELISA, FACS, IHC, IHC-P, WB
© GTX101700	SGSH antibody [C1C3]	Rb pAb	Hu	IHC-P, WB
GTX101701	SGSH antibody [N1N3]	Rb pAb	Hu	WB
GTX106039	ZKSCAN3 antibody [N1C2]	Rb pAb	Hu	ICC/IF, IHC-P, WB

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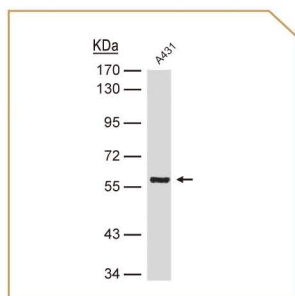


Selective Autophagy

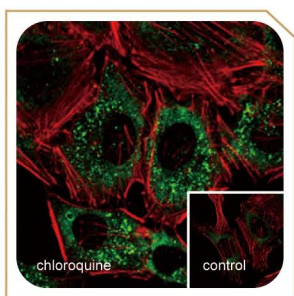


Selective autophagy refers to the selective degradation of unwanted constituents such as dysfunctional mitochondria (mitophagy), lipid droplets (lipophagy), abnormal protein aggregates (aggrephagy), and invading pathogens (xenophagy). They are important homeostatic control systems and involved in basal constitutive autophagy capable of being altered by various stressors. Defect of selective autophagy has been implicated in various physiological disorders, including cancer. But the underlying mechanisms are not fully understood.

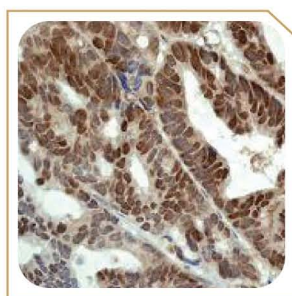
Selective Autophagy



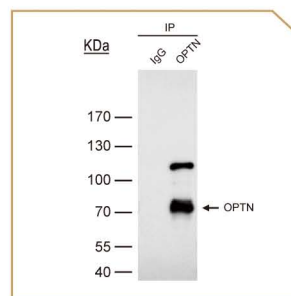
PINK1 antibody [N3C3] (GTX107851)
WB analysis of PINK1 protein in A431 cells.



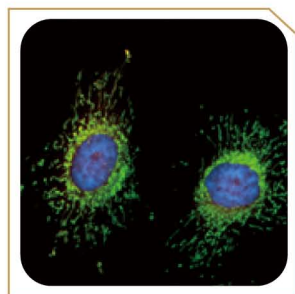
NDP52 antibody [GT1813] (GTX630397)
ICC/IF analysis of NDP52 expression in the HeLa cells treated w/wo chloroquine.



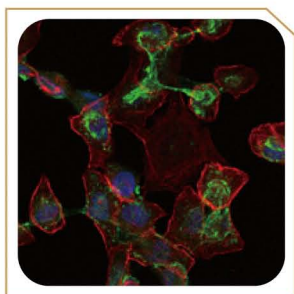
NRF2 (phospho Ser40) antibody [EP1809Y] (GTX61664)
IP analysis of mTOR protein in 293T cell extract.



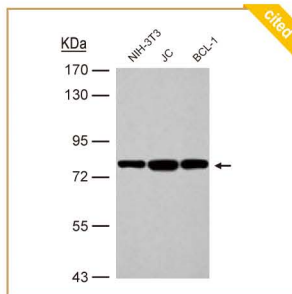
Optineurin antibody (GTX105447)
IP analysis of Optineurin protein in HepG2 whole cell lysate.



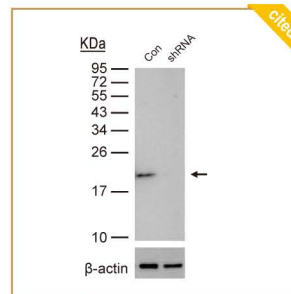
FIS1 antibody [GT9810] (GTX631209)
ICC/IF analysis of FIS1 expression in HeLa cells.



Apolipoprotein B antibody [6G6] (GTX60445)
ICC/IF analysis of ApoB expression in HepG2 cells.



Grp78 antibody (GTX113340)
WB analysis of Grp78 protein in the indicated cell lines.



SOD1 antibody (GTX100659)
WB analysis of SOD1 protein in HeLa cells treated w/wo SOD1 shRNA.

Mitophagy

Reference

Cat. No.	Product	Host & Clonality	Reactivity	Application
GTX111902	BNIP3 antibody [N1C1]	Rb pAb	Hu	WB
GTX10433	BNIP3 antibody [ANa40]	Ms mAb	Hu	ELISA, ICC/IF, IP, WB
GTX111876	BNIP3L antibody	Rb pAb	Hu, Ms	ICC/IF, IHC-P, WB
GTX31655	BNIP3L antibody	Rb pAb	Hu	ELISA, ICC/IF, IHC, IHC-P, WB
GTX111010	FIS1 antibody	Rb pAb	Hu, Ms, Rat	ICC/IF, IHC-P, WB
GTX630992	FIS1 antibody [GT12112]	Ms mAb	Hu	ICC/IF, WB
GTX630983	FIS1 antibody [GT4211]	Ms mAb	Hu	ICC/IF, WB
GTX631209	FIS1 antibody [GT9810]	Ms mAb	Hu	ICC/IF, WB
GTX102055	MFN2 antibody [N1N2], N-term	Rb pAb	Hu, Ms	IHC-P, WB
GTX31923	MFN2 antibody	Rb pAb	Hu, Rat	ELISA, ICC/IF, IHC, IHC-P, WB
GTX114539	NBR1 antibody	Rb pAb	Hu, Ms	IHC-P, WB
GTX61664	NRF2 (phospho Ser40) antibody [EP1809Y]	Rb mAb	Hu	FACS, ICC/IF, IHC-P, WB
GTX61763	NRF2 antibody [EP1808Y], C-term	Rb mAb	Hu	ICC/IF, IHC-Fr, IHC-P, IP, WB, ChIP assay
GTX105447	Optineurin antibody	Rb pAb	Hu	ICC/IF, IHC-P, IP, WB
GTX31095	Parkin (phospho Ser101) antibody	Rb pAb	Hu	WB

Reference

Cat. No.	Product	Host & Clonality	Reactivity	Application
GTX82618	Parkin (phospho Ser378) antibody	Rb pAb	Hu	WB
GTX25667	Parkin antibody	Rb pAb	Hu, Rat	IHC, IP, WB
GTX15494	Parkin antibody	Rb pAb	Hu, Ms, Rat	IHC-P
GTX85382	PARL antibody	Rb pAb	Hu, Ms, Rat	ELISA, ICC/IF, WB
GTX83183	PARL antibody [8C4B2;1H12E10]	Ms mAb	Hu	ELISA, WB
GTX59847	PINK1 antibody	Rb pAb	Hu, Ms, Rat	WB
GTX107851	PINK1 antibody [N3C3]	Rb pAb	Hu	ICC/IF, WB
GTX88986	PINK1 antibody, Internal	Gt pAb	Rat	WB
GTX121081	TBC1D15 antibody	Rb pAb	Hu, Ms	IHC-P, WB
GTX121082	TBC1D15 antibody [N1N2], N-term	Rb pAb	Hu	WB
 GTX114187	VDAC1 antibody [N1C2]	Rb pAb	Hu, Ms, Rat	IHC-P, WB

Lipophagy

Reference

Cat. No.	Product	Host & Clonality	Reactivity	Application
 GTX110204	ADFP antibody [N1C2]	Rb pAb	Hu	WB
GTX60445	Apolipoprotein B antibody [6G6]	Ms mAb	Hu	ELISA, FACS, ICC/IF, WB
 GTX40737	Apolipoprotein B antibody	Rb pAb	Hu, Ms	RID, WB
GTX54016	FABP4 antibody	Rb pAb	Hu, Ms, Rat	ICC/IF, IHC, IHC-P, WB
GTX116036	FABP4 antibody [N3C3]	Rb pAb	Hu, Ms	ICC/IF, WB
GTX31226	Glucose Transporter 4 antibody [1F8]	Ms mAb	Hu, Ms, Mk, Pig, Rat, Rb	ICC/IF, IHC-Fr, IHC-P, IP, WB
GTX37822	GLUT4 antibody	Gt pAb	Hu, Ms, Cow, Pig, Rat	ELISA, WB

Xenophagy

Reference

Cat. No.	Product	Host & Clonality	Reactivity	Application
GTX24544	MDA5 / IFIH1 antibody, N-term	Gt pAb	Hu	IHC, IHC-P, WB
 GTX103138	MDA5 antibody [N2C1], Internal	Rb pAb	Hu	IHC-P, WB
GTX113057	NAK antibody [N2C1], Internal	Rb pAb	Hu, Ms	ICC/IF, IHC-P, WB
 GTX30202	NaK ATPase antibody [464.6 or 6H]	Ms mAb	Hu, Ms, Dog, Dm, Pig, Rat, Yeast, Gpig, NHuPm, Rb, Shp, Xi, Bov	FACS, ICC/IF, IHC, WB
GTX115378	NDP52 antibody	Rb pAb	Hu	ICC/IF, IHC-P, IP, WB
GTX630397	NDP52 antibody [GT1813]	Ms mAb	Hu	ICC/IF, WB
GTX630396	NDP52 antibody [GT422]	Ms mAb	Hu	ICC/IF, IP, WB
GTX108811	NOD1 antibody [C2C3], C-term	Rb pAb	Hu	ICC/IF, WB
GTX30694	NOD2 antibody	Rb pAb	Hu, Mk	WB
GTX89233	NOD2 antibody, Internal	Gt pAb	Hu	WB
 GTX103322	NRF2 antibody [N2C2], Internal	Rb pAb	Hu, Rat	ICC/IF, IHC-P, IP, WB, ChIP assay
GTX111138	TRAF2 antibody	Rb pAb	Hu	ICC/IF, IHC-P, WB
GTX16381	TRAF2 antibody	Rb pAb	Hu, Ms, Rat	ICC/IF, IHC, IP, WB
GTX12123	TRAF5 antibody [55A219]	Ms mAb	Hu	WB
GTX102415	TRAF5 antibody [N1N3]	Rb pAb	Hu	ICC/IF, IHC-P, WB

Aggrephagy

Reference

Cat. No.	Product	Host & Clonality	Reactivity	Application
GTX112873	Bag1 antibody [N2C3]	Rb pAb	Hu	IHC-P, WB
GTX102433	Bag1 antibody [N3C3]	Rb pAb	Hu	ICC/IF, WB
Ⓢ GTX25898	BAG3 / BIS/ CAIR1 antibody, C-term	Gt pAb	Hu	WB
Ⓢ GTX102396	BAG3 antibody	Rb pAb	Hu, Ms, Zfish	IHC-P, WB, Immunostaining
GTX106700	CCDC37 antibody	Rb pAb	Hu	IHC-P, WB
GTX111510	CDC37 antibody	Rb pAb	Hu	WB
GTX73025	CDC37 antibody	Rb pAb	Hu, Ms	IP, WB
GTX55427	CDC37 (phospho Ser13) antibody	Rb pAb	Hu, Ms, Rat	WB
GTX107705	CDC37L1 antibody [C2C3], C-term	Rb pAb	Hu	WB
GTX119311	CDC37L1 antibody [N3C3]	Rb pAb	Hu	IHC-P, WB
GTX81054	DERL1 antibody, C-term	Rb pAb	Hu, Ms	ELISA, FACS, IHC, IHC-P, WB
GTX48541	Derlin 1 antibody	Rb pAb	Hu, Dog	ICC/IF, IHC, WB
Ⓢ GTX113340	Grp78 antibody	Rb pAb	Hu, Ms, Rat	ICC/IF, IHC-P, WB
Ⓢ GTX84377	HDAC6 antibody [4C5]	Ms mAb	Hu, Dog, Mk, Rat	FACS, ICC/IF, WB
GTX111920	HSP22 antibody	Rb pAb	Hu, Ms	ICC/IF, IHC-P
GTX104815	HSP22 antibody [C2C3], C-term	Rb pAb	Hu	ICC/IF, IHC-P, WB
GTX54013	HSP40 antibody	Rb pAb	Hu, Ms, Rat	ICC/IF, IHC, IHC-P, WB
GTX50059	Hsp40 antibody [k1C7]	Ms mAb	Hu	ELISA, WB
GTX102049	Hsp40 antibody [N1C1]	Rb pAb	Hu	WB
Ⓢ GTX111088	HSP70 1A antibody	Rb pAb	Hu, Ms	ICC/IF, IHC-P, IP, WB
Ⓢ GTX104126	HSP70 1A antibody	Rb pAb	Hu, Ms, Rat	ICC/IF, IHC-P, IP, WB
GTX106148	HSP70 1B antibody	Rb pAb	Hu	ICC/IF, IHC-P, WB
GTX111045	HSP70 1L antibody [N1N3]	Rb pAb	Hu	ICC/IF, IHC-P, WB
Ⓢ GTX109753	Hsp90 alpha antibody	Rb pAb	Hu, Ms, Rat	ICC/IF, IHC-P, IP, WB
Ⓢ GTX101448	HSP90 beta antibody	Rb pAb	Hu, Ms, Rat	ICC/IF, IHC-P, WB, ELISA-Ag
GTX101423	HSP90 beta antibody [N2C2], Internal	Rb pAb	Hu, Ms, Rat	ICC/IF, IHC-P, WB
GTX630148	Ubiquitin antibody [GT7811]	Ms mAb	Other	WB
GTX128826	Ubiquitin antibody	Rb pAb	Hu	WB
GTX111485	Ubiquilin-1 antibody [N1C1]	Rb pAb	Hu	ICC/IF, WB
Ⓢ GTX100659	SOD1 antibody	Rb pAb	Hu, Ms, Rat	ICC/IF, IHC-Fr, IHC-P, WB
Ⓢ GTX114210	TARDBP antibody	Rb pAb	Hu, Ms, Rat	ICC/IF, IHC-P, IP, WB, ChIP-seq
GTX16051	Tau (Phospho Ser199) antibody [17D3.G7]	Ms mAb	Hu	ELISA, IP, WB
GTX31112	Tau (phospho Ser214) antibody	Rb pAb	Hu, Ms, Rat	ELISA, IHC, IHC-P, WB
GTX31113	Tau (phospho Ser235) antibody	Rb pAb	Hu, Ms, Rat	ELISA, IHC, IP, WB
GTX50175	Tau (phospho Ser262) antibody	Rb pAb	Hu, Ms, Rat	ICC/IF, IHC, IHC-P, WB
GTX50165	Tau (phospho Ser356) antibody	Rb pAb	Hu, Ms, Rat	ICC/IF, WB
GTX50166	Tau (phospho Ser396) antibody	Rb pAb	Hu, Ms, Rat	IHC-P, WB
GTX129892	Tau (phospho Ser400) antibody	Rb pAb	Hu	WB
GTX50176	Tau (phospho Ser404) antibody	Rb pAb	Hu, Ms, Rat	ICC/IF, IHC, IHC-P, WB
GTX86147	Tau (phospho Ser422) antibody	Rb pAb	Hu, Ms, Rat	ELISA, IHC, IHC-P, WB
GTX50172	Tau (phospho Thr205) antibody	Rb pAb	Hu, Ms, Rat	IHC, IHC-P, WB
GTX50174	Tau (phospho Thr231) antibody	Rb pAb	Hu, Ms, Rat	IHC, IHC-P, WB
GTX54966	Tau (phospho Thr529) antibody	Rb pAb	Hu, Ms, Chk, Dog, Mk, Pig, Rat, Bov	IHC, IHC-P, WB
GTX100866	Tau antibody	Rb pAb	Hu, Ms	IHC-P, WB
GTX112981	Tau antibody	Rb pAb	Hu	IHC-P, WB
GTX116044	Tau antibody	Rb pAb	Hu	WB
Ⓢ GTX113029	TRAF6 antibody [N2C2], Internal	Rb pAb	Hu, Ms, Rat	ICC/IF, IHC-P, IP, WB
Ⓢ GTX113030	VCP antibody [N1N2], N-term	Rb pAb	Hu, Ms, Rat	ICC/IF, IHC-P, IP, WB

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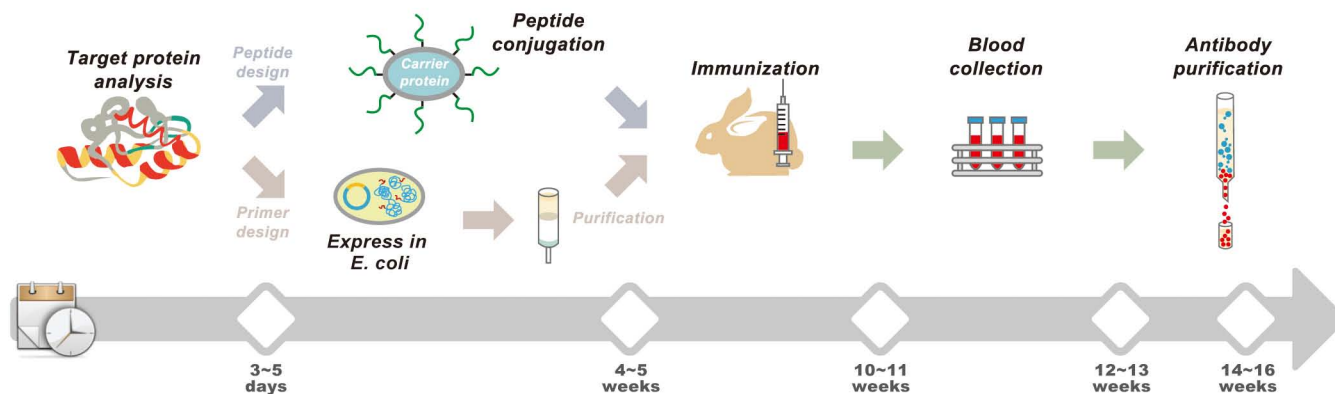
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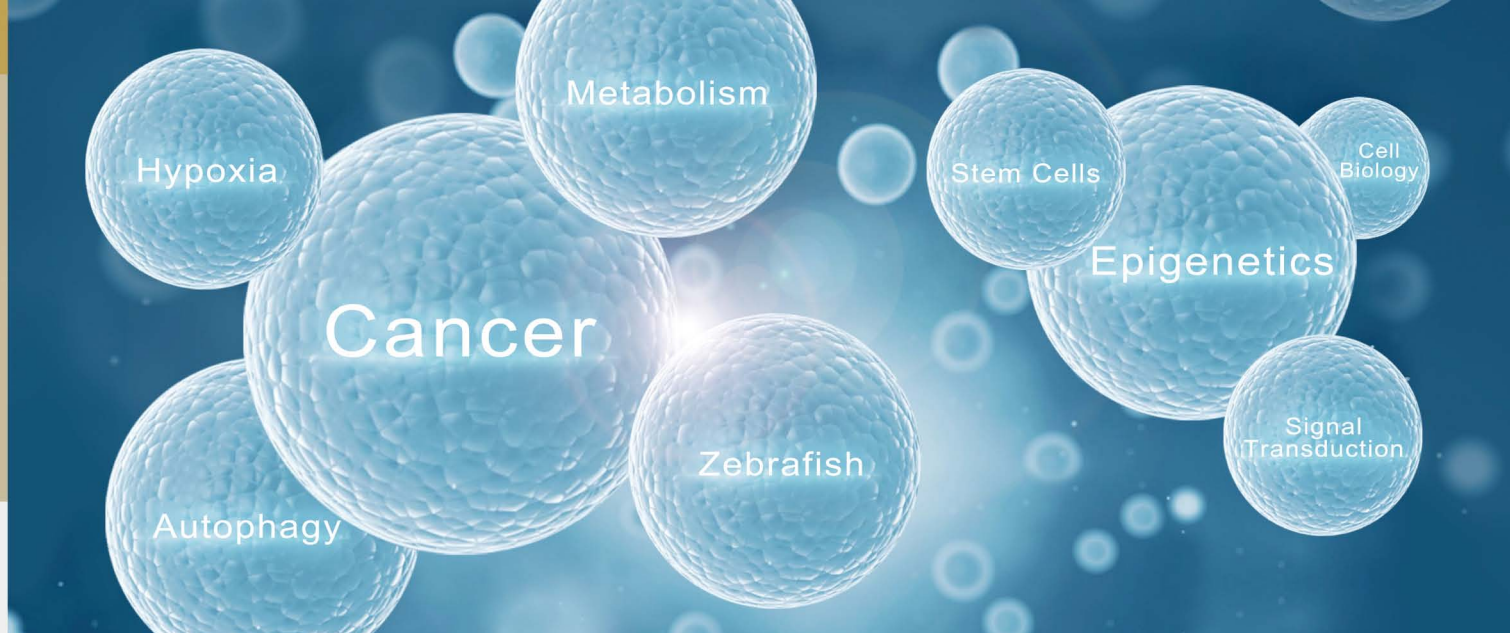
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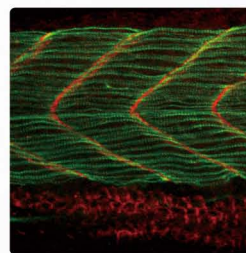
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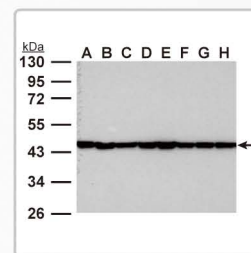
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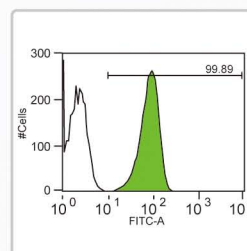
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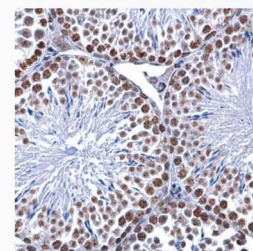
Tln1 antibody (GTX125409)



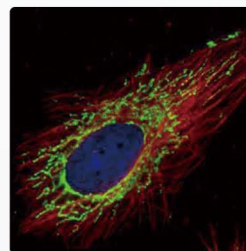
beta Actin antibody (GTX109639)



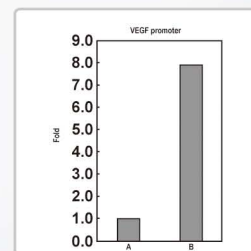
Oct4 antibody [GT486]
(GTX627419)



5-Methylcytosine / 5-mC antibody
[GT4111] (GTX629448)



COX4 antibody (GTX101499)



HIF1 alpha antibody (GTX127309)



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