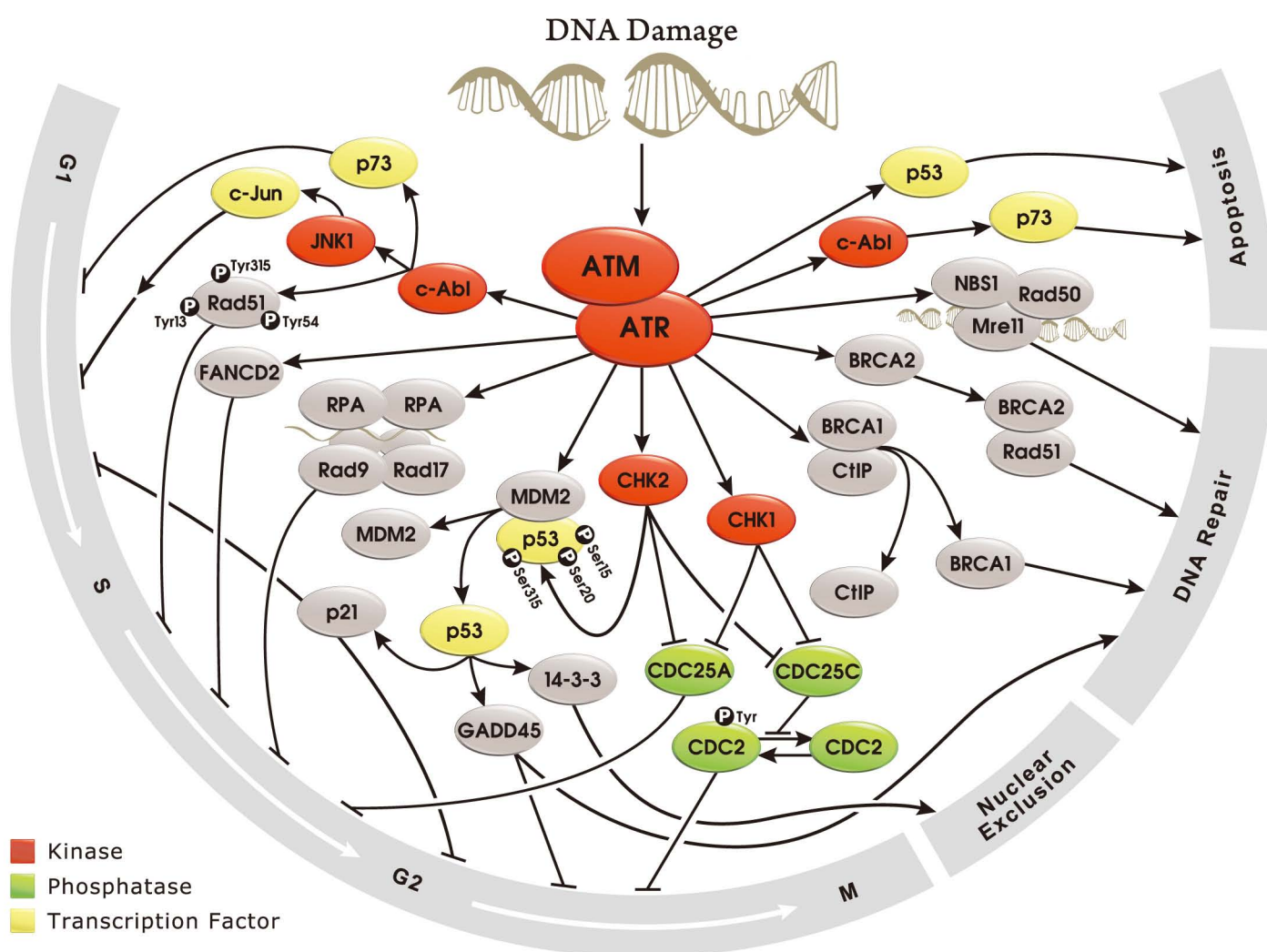
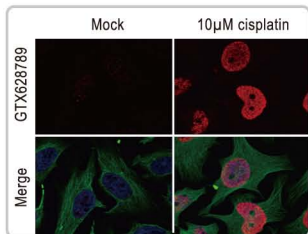


DNA Damage and Repair

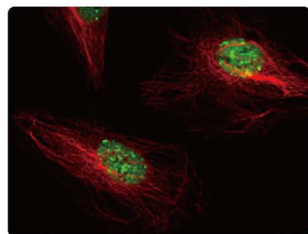


Mammalian DNA is constantly being compromised by various endogenous and exogenous insults. This damage can include crosslinks, base modifications, base mismatches, stalled replication forks, single-strand breaks (SSBs), and particularly dangerous double-strand breaks (DSBs). The magnitude of this assault on the genome is conveyed by the fact that a cell can experience at least 10,000 SSBs per day, with unrepaired lesions potentially being converted to DSBs. Fortunately, eukaryotes possess an array of distinct but often interlinked pathways to detect and repair damaged DNA, including base excision repair (BER), nucleotide excision repair (NER), mismatch repair (MMR), single-strand break repair (SSBR), non-homologous end joining (NHEJ), and homologous recombination (HR), among others. In addition to these, checkpoints can arrest cell cycle progression to allow for DNA repair and prevent transmission of damaged DNA to daughter cells. The overriding goal of these mechanisms is the preservation of genomic integrity.

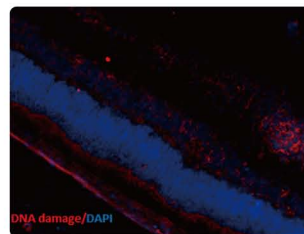
GeneTex offers an outstanding selection of antibodies to support DNA damage and repair research. Please see our highlighted antibodies or visit our website for the full catalog.



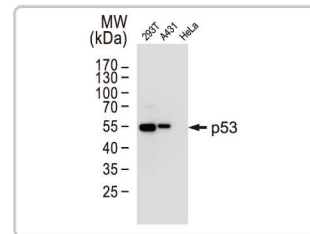
Histone H2A.XS139ph (pSer139) antibody [GT2311] (GTX628789)



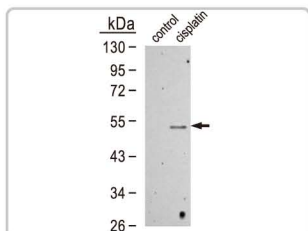
53BP1 antibody [N1], N-term (GTX102595)



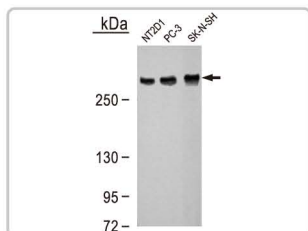
8-Hydroxyguanosine antibody [15A3] (GTX41980)



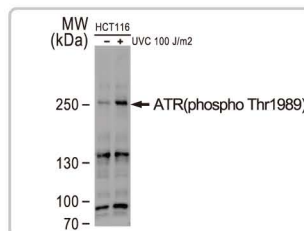
p53 antibody [D01] (GTX70214)



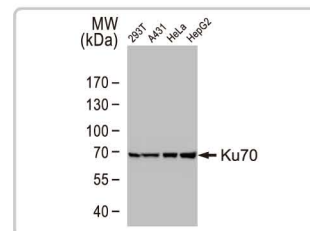
p53 (mono-methyl Lys372) antibody (GTX117515)



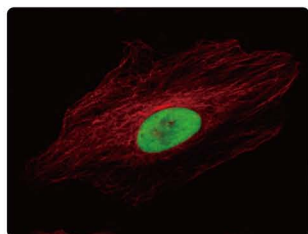
ATM antibody [2C1] (GTX70103)



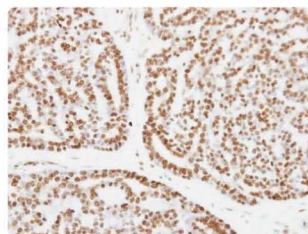
ATR (pThr1989) antibody (GTX128145)



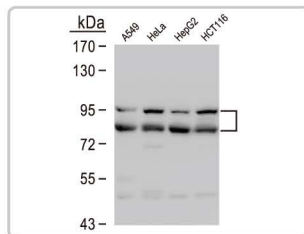
Ku70 antibody (GTX101820)



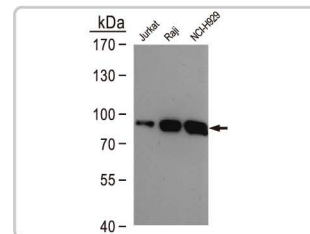
Ku80 antibody [N3C2], Internal (GTX109935)



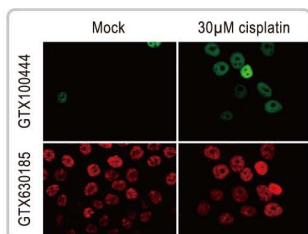
XPC antibody [C2C3], C-term (GTX102840)



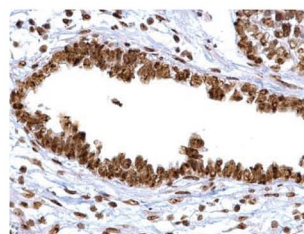
MDM2 antibody [N1N3] (GTX110608)



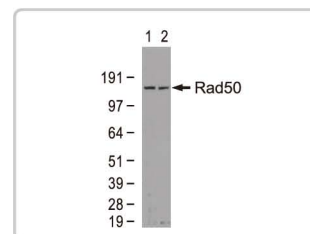
Mre11 antibody [12D7] (GTX70212)



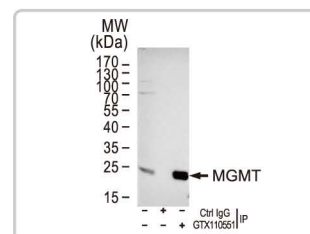
p21 Cip1 antibody (GTX100444)



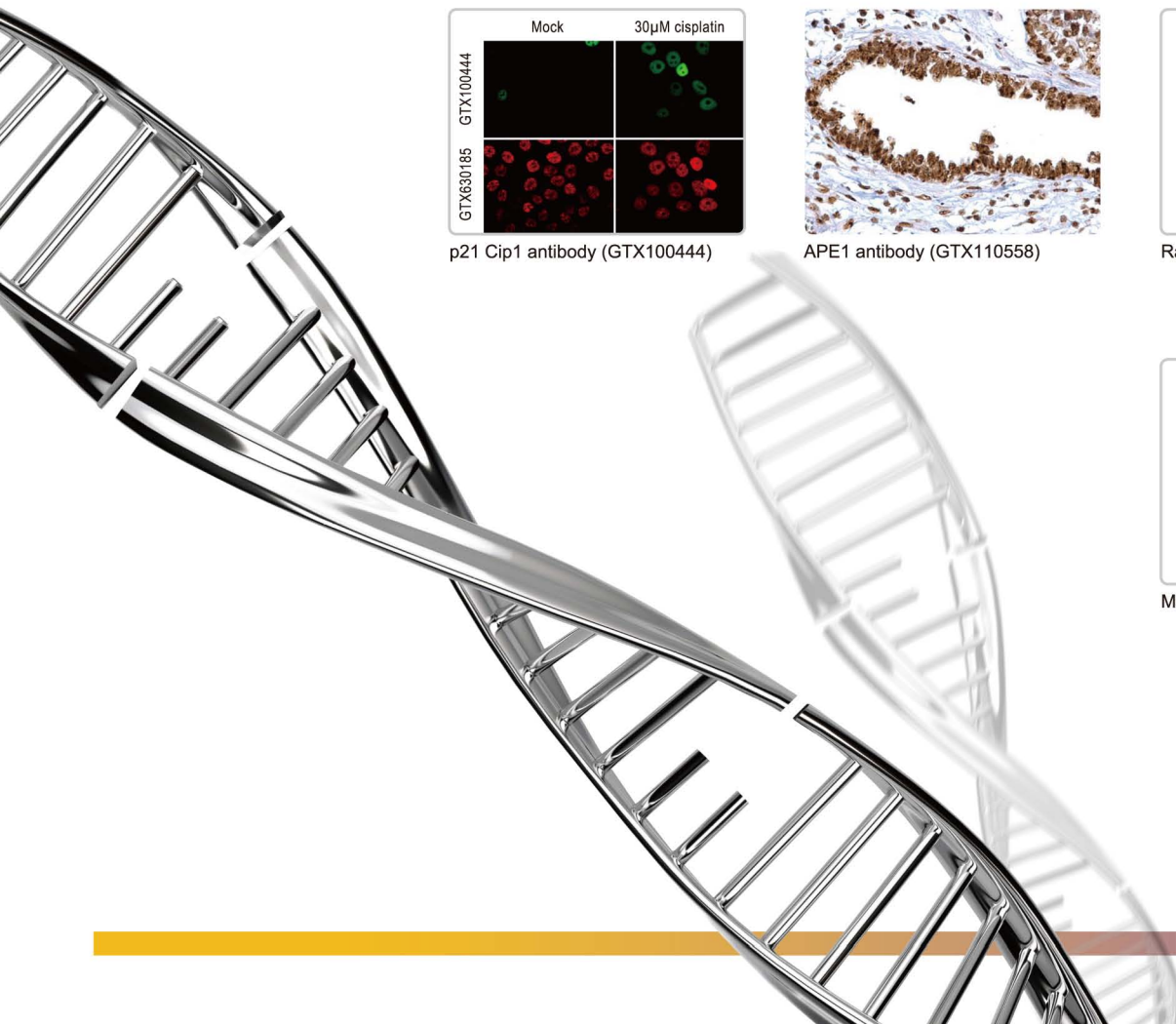
APE1 antibody (GTX110558)



Rad50 antibody [13B3] (GTX70228)



MGMT antibody (GTX110551)



Cat. No.	Product name	Host & Clonality	Reactivity	Application
GTX113298	14-3-3 gamma antibody	Rb pAb	Hu, Ms	ICC/IF, IHC-P, WB
GTX100801	14-3-3 sigma antibody	Rb pAb	Hu, Ms	ICC/IF, IHC-P, IP, WB
GTX100289	14-3-3 sigma antibody	Rb pAb	Hu, Ms, Rat	ICC/IF, IHC-P, WB
GTX101075	14-3-3 zeta antibody	Rb pAb	Hu, Ms	ICC/IF, IHC-P, WB
GTX70310	53BP1 antibody	Rb pAb	Hu	ICC/IF, IHC, WB
GTX60762	53BP1 antibody [6B3E10] (Purified)	Ms mAb	Hu	ELISA, FACS, IHC, IHC-P, WB
GTX102595	53BP1 antibody [N1], N-term	Rb pAb	Hu	ICC/IF, IHC-P, WB
GTX110558	APE1 antibody	Rb pAb	Hu, Ms, Rat	ICC/IF, IHC-P, IP, WB, ChIP assay
GTX107122	APE1 antibody	Rb pAb	Hu, Ms	IHC-P, WB
GTX70131	APE1 antibody [2104]	Ms mAb	Hu, Ms	ELISA, IHC-P, WB
GTX100050	APE1 antibody [N1], N-term	Rb pAb	Hu	ICC/IF, IHC-P, WB
GTX70103	ATM antibody [2C1]	Ms mAb	Hu, Ms, Mk, Rat	ELISA, FACS, ICC/IF, IHC-P, IP, WB, ChIP assay
GTX77613	ATM antibody [2C1] (supernatant)	Ms mAb	Hu, Ms, Mk, Rat	ICC/IF, IHC, IHC-P, IP, WB
GTX70105	ATM antibody [3E8]	Ms mAb	Hu, Ms, Mk, Rat	IHC-P, IP, WB
GTX70107	ATM antibody [5C2]	Ms mAb	Hu, Ms, Mk, Rat	ICC/IF, IHC, WB
GTX70109	ATR antibody [2B5]	Ms mAb	Hu	ICC/IF, IP, WB, Functional Assay
GTX128145	ATR (phospho Thr1989) antibody	Rb pAb	Hu	IHC-P, IP, WB
GTX101310	ATRX antibody [C3], C-term	Rb pAb	Hu, Ms	ICC/IF, IHC-P, IP, WB
GTX629703	ATRX antibody [GT4212]	Ms mAb	Ms	ICC/IF, WB
GTX101303	BLM antibody [C3], C-term	Rb pAb	Hu, Ms	ICC/IF, IHC-P, WB
GTX101403	BLM antibody [N1N2], N-term	Rb pAb	Hu	ICC/IF, WB
GTX70111	BRCA1 antibody [17F8] - ChIP grade	Ms mAb	Hu, Ms	ELISA, ICC/IF, IHC, IHC-P, IP, WB, ChIP assay
GTX70115	BRCA1 antibody [6B4] - ChIP grade	Ms mAb	Hu, Ms	ICC/IF, IHC, IP, WB, ChIP assay
GTX70113	BRCA1 antibody [8F7]	Ms mAb	Hu, Ms	IHC, IHC-P, IP, WB
GTX70121	BRCA2 antibody [3E6]	Ms mAb	Hu	ICC/IF, IHC, IP, WB
GTX70123	BRCA2 antibody [5F6]	Ms mAb	Hu	IHC, IHC-Fr, IHC-P, WB
GTX102809	CDC25C antibody	Rb pAb	Hu	ICC/IF, IHC-P, WB
GTX70264	CtIP antibody [19E8]	Ms mAb	Hu, Ms	ICC/IF, IP, WB, ChIP assay
GTX70141	DNA ligase I antibody [10H5]	Ms mAb	Hu, Ms	IP, WB
GTX70143	DNA ligase III antibody [1F3]	Ms mAb	Hu, Ms, Chk	Blocking, ICC/IF, IP, WB
GTX70147	DNA ligase III antibody [6G9]	Ms mAb	Hu, Ms	ICC/IF, IHC-P, WB
GTX100398	DNA polymerase gamma antibody	Rb pAb	Hu, Rat	ICC/IF, IHC-P, IP, WB
GTX113247	DNA polymerase gamma antibody [N1N2], N-term	Rb pAb	Hu, Rat	IHC-P, WB
GTX114367	DRIL1 antibody	Rb pAb	Hu, Ms	ICC/IF, IHC-P, IP, WB
GTX105720	DRIL1 antibody [N2C2], Internal	Rb pAb	Hu, Ms	ICC/IF, IHC-P, IP, WB
GTX100145	ERCC8 antibody [N2C2], Internal	Rb pAb	Hu, Ms	ICC/IF, WB, Functional Assay
GTX103424	hHR23b antibody	Rb pAb	Hu	ICC/IF, IHC-P, WB
GTX100519	HMG2 antibody - ChIP grade	Rb pAb	Hu, Ms, Rat	ICC/IF, IHC-P, IP, WB, ChIP assay
GTX629478	HMG2 antibody [GT763]	Ms mAb	Hu, Ms, Rat	IHC-P, IP, WB
GTX101820	Ku70 antibody	Rb pAb	Hu	ICC/IF, IHC-P, IP, WB
GTX101848	Ku70 antibody [N1N3]	Rb pAb	Hu	ICC/IF, IHC-P, WB
GTX70276	Ku80 antibody [149.8]	Ms mAb	Hu	ICC/IF, WB
GTX110046	Ku80 antibody [N1N3]	Rb pAb	Hu	IHC-P, WB
GTX109935	Ku80 antibody [N3C2], Internal	Rb pAb	Hu	ICC/IF, IHC-P, IP, WB
GTX77723	MDM4 antibody	Rb pAb	Hu	WB
GTX83335	MDM4 antibody [2D10F4]	Ms mAb	Hu	ELISA, ICC/IF, IHC, IHC-P, WB
GTX110551	MGMT antibody	Rb pAb	Hu	IP, WB
GTX118741	Mre11 antibody	Rb pAb	Hu, Ms, Rat	ICC/IF, IHC-P, WB
GTX70212	Mre11 antibody [12D7]	Ms mAb	Hu	ELISA, ICC/IF, IHC-P, IP, WB, Functional Assay
GTX73803	MSH6 antibody [44]	Ms mAb	Hu	IHC, IHC-P, WB

Cat. No.	Product name	Host & Clonality	Reactivity	Application
Ⓢ GTX111661	MSH6 antibody [C1C2], Internal	Rb pAb	Hu, Ms, Zfsh	EMSA, ICC/IF, IHC-P, IP, WB
GTX100082	MUS81 antibody	Rb pAb	Hu, Ms, Rat	ICC/IF, WB
Ⓢ GTX70222	NBS1 antibody [1C3]	Ms mAb	Hu	ICC/IF, IP, WB
Ⓢ GTX70224	NBS1 antibody [1D7]	Ms mAb	Hu, Ms, Rat	ICC/IF, IP, WB
Ⓢ GTX102965	p53 antibody	Rb pAb	Hu	ICC/IF, IHC-P, IP, WB, ChIP assay
Ⓢ GTX70214	p53 antibody [D01]	Ms mAb	Hu	ELISA, FACS, ICC/IF, IHC-Fr, IHC-P, IP, WB, ChIP/Chip
Ⓢ GTX70216	p53 antibody [Pab1801]	Ms mAb	Hu	ELISA, FACS, IHC-Fr, IHC-P, IP, RIA, WB, ChIP assay
GTX117515	p53 (mono-methyl Lys372) antibody	Rb pAb	Hu	ICC/IF, IHC-P, WB
Ⓢ GTX100573	PARP antibody	Rb pAb	Hu, Ms	ICC/IF, WB, ChIP assay
Ⓢ GTX628836	PARP antibody [GT6212]	Ms mAb	Hu	WB
GTX86921	PARP (cleaved Asp214) antibody	Rb pAb	Hu, Ms	ELISA, WB
Ⓢ GTX106952	PRP19 antibody [C1C3]	Rb pAb	Hu	ICC/IF, IHC-P, WB
GTX111233	PRP19 antibody [N2C2], Internal	Rb pAb	Hu, Ms	ICC/IF, IHC-P, WB
GTX100083	Rad17 antibody [N2C1], Internal	Rb pAb	Hu, Ms	ICC/IF, IHC-P, WB
GTX128147	Rad17 (phospho Ser646) antibody	Rb pAb	Hu	ICC/IF, IHC-P, WB
Ⓢ GTX106012	RAD21 antibody	Rb pAb	Hu, Ms	ICC/IF, IHC-P, IP, WB
Ⓢ GTX70228	Rad50 antibody [13B3]	Ms mAb	Hu, Ms, Mk, Rat	ICC/IF, IHC, IP, WB
GTX119731	Rad50 antibody [N1N2], N-term	Rb pAb	Hu, Ms	IHC-P, IP, WB
Ⓢ GTX70230	Rad51 antibody [14B4]	Ms mAb	Hu, Ms, Chk	ICC/IF, IHC-P, IP, WB
Ⓢ GTX100469	Rad51 antibody [N1C2]	Rb pAb	Hu, Ms	ICC/IF, IHC-P, IP, WB
GTX113004	RPA32 antibody	Rb pAb	Hu, Ms, Rat	ICC/IF, IHC-P, WB
Ⓢ GTX70243	RPA32 antibody [12F3.3]	Ms mAb	Hu, Ms	ICC/IF, IP, WB
Ⓢ GTX70294	XPC antibody [3.26]	Ms mAb	Hu, Ms	ICC/IF, IHC-P, WB
GTX102840	XPC antibody [C2C3], C-term	Rb pAb	Hu	ICC/IF, IHC-P, WB
Ⓢ GTX109632	XRCC4 antibody	Rb pAb	Hu	ICC/IF, IHC-P, WB

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