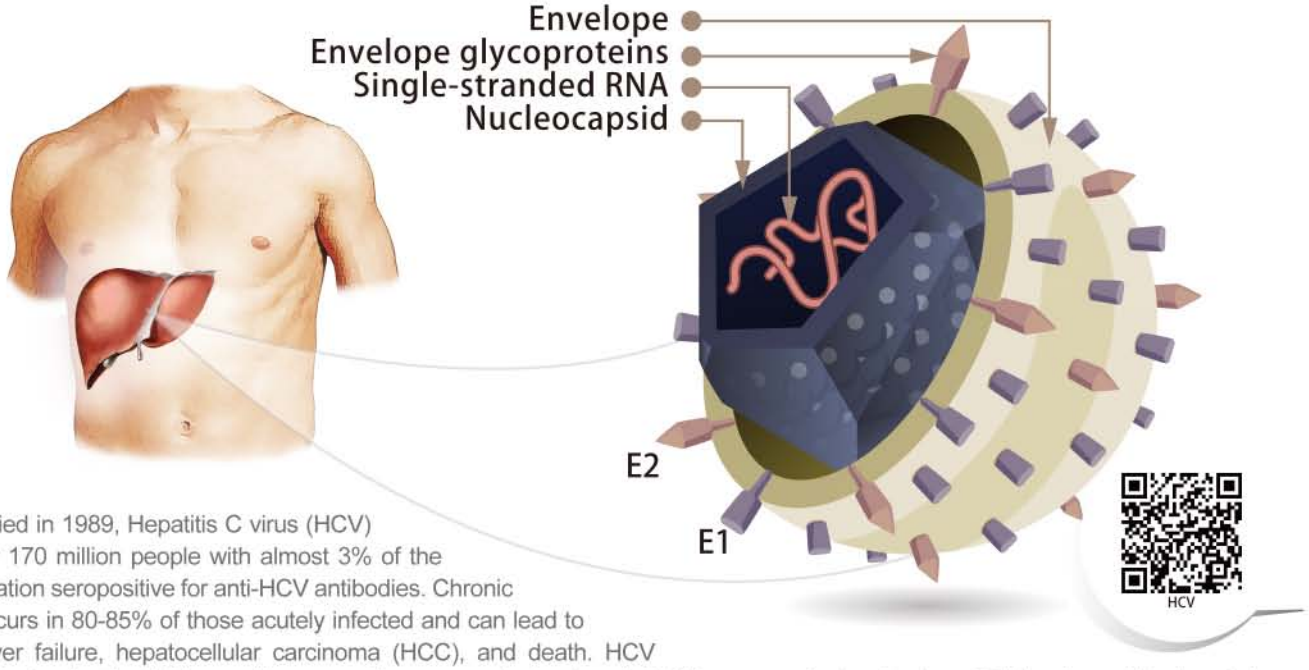
GeneTex

Your Expertise, Our Antibodies, Accelerated Discovery.

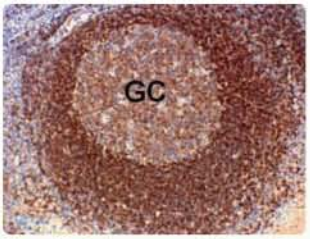
Virus Antibodies

Hepatitis C virus (HCV)

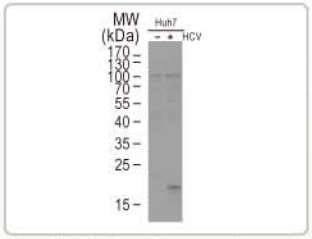


First identified in 1989, Hepatitis C virus (HCV) affects over 170 million people with almost 3% of the world population seropositive for anti-HCV antibodies. Chronic infection occurs in 80-85% of those acutely infected and can lead to cirrhosis, liver failure, hepatocellular carcinoma (HCC), and death. HCV belongs to the family Flaviviridae and has a positive-sense, single-stranded RNA genome that codes for a 3011 amino acid polyprotein. This polyprotein is subsequently processed by viral and cellular proteases into three structural proteins (core, E1, and E2) and seven non-structural proteins (p7, NS2, NS3, NS4A, NS4B, NS5A, and NS5B). While genetic diversity makes HCV highly adaptable to challenges from the host immune system and antiviral drugs, research into HCV biology has revealed new targets (e.g., the NS5B polymerase and the NS3 protease) for specific antiviral therapies that create new hope for HCV-infected people.

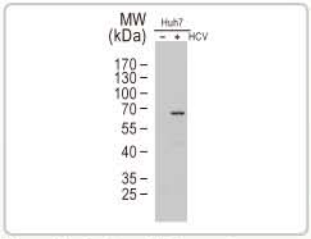
GeneTex is proud to offer an outstanding selection of antibodies for HCV research. Please see the highlighted antibodies below or visit our website for a complete list of these gold standard products.



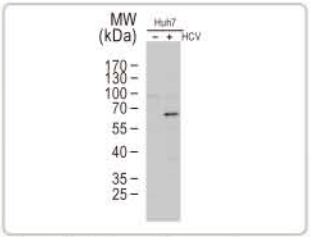
Hepatitis C virus core + NS3 + NS4 antibody (GTX40324)
IHC-P analysis of HCV-infected tissue.



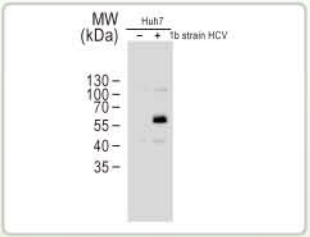
Hepatitis C virus Core protein antibody (GTX131265)
WB analysis of Core protein in Huh7 cells infected with HCV.



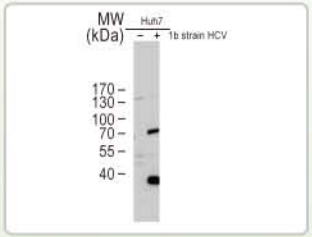
Hepatitis C virus NS3 protein antibody (GTX131269)
WB analysis of NS3 protein in Huh7 cells infected with HCV.



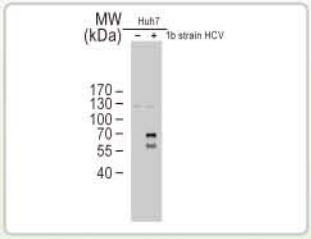
Hepatitis C virus NS3 protein antibody (GTX131276)
WB analysis of NS3 protein in Huh7 cells infected with HCV.



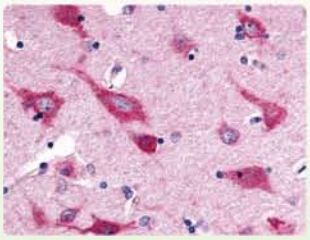
Hepatitis C virus NS5A protein antibody (GTX131272)
WB analysis of NS5A protein in Huh7 cells transfected with 1b strain HCV replicon.



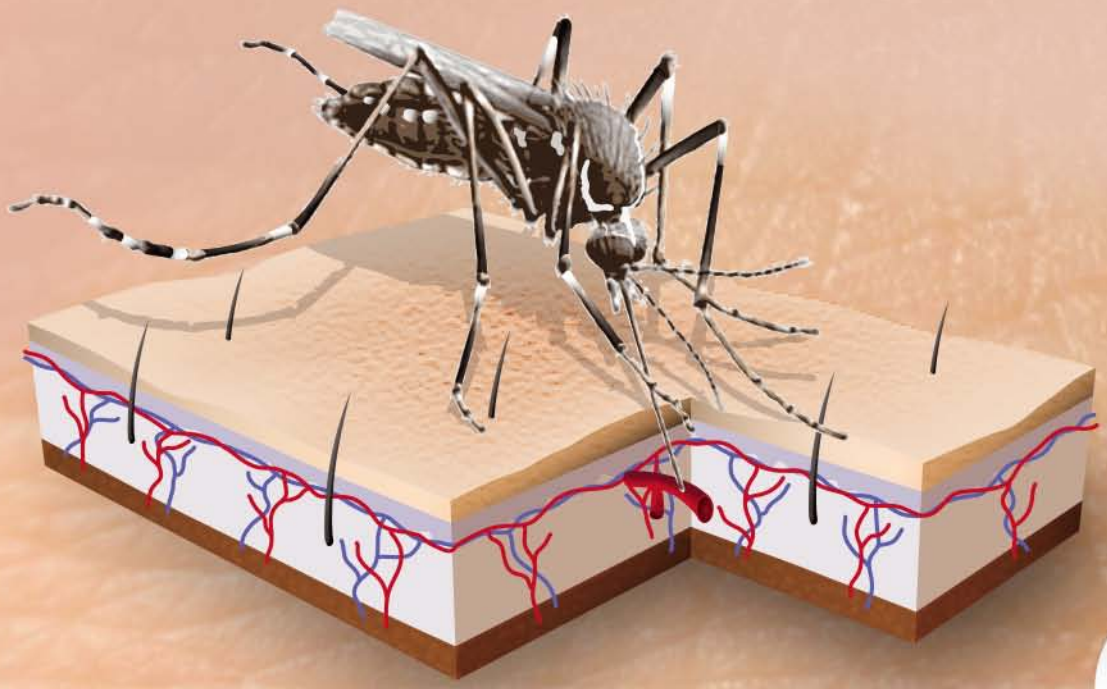
Hepatitis C virus NS5B protein antibody (GTX131273)
WB analysis of NS5B protein in Huh7 cells transfected with 1b strain HCV replicon.



Hepatitis C virus NS5B protein antibody (GTX131274)
WB analysis of NS5B protein in Huh7 cells transfected with 1b strain HCV replicon.



Hepatitis C virus antibody (GTX70331)
IHC analysis of HCV-infected tissue.

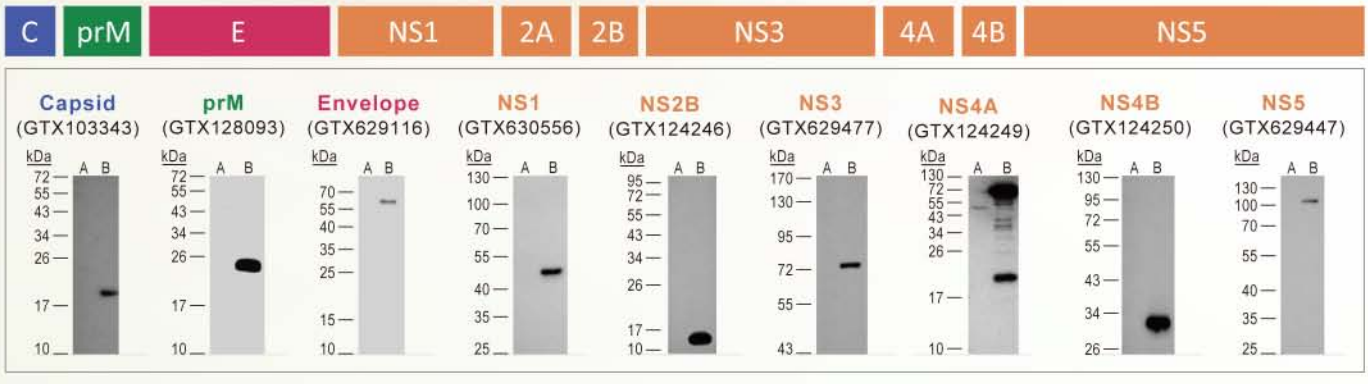


Dengue Virus

Dengue Virus

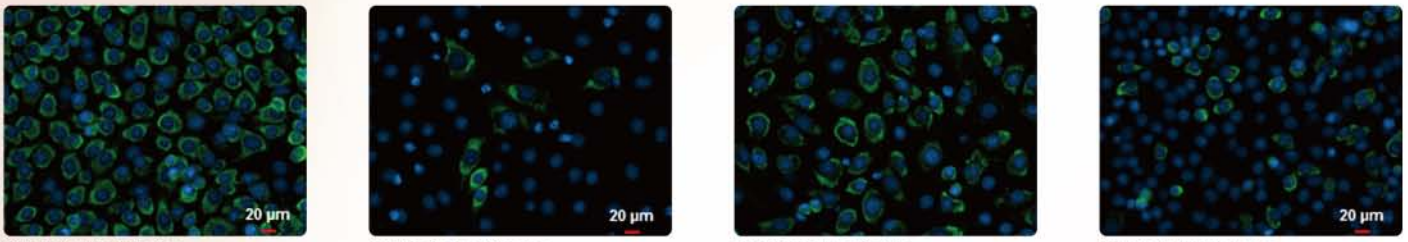
Dengue fever is the most serious of the mosquito-borne viral diseases. It is caused by Dengue virus (DENV), from any of the four serotypes (DEN1-4). Patients develop long-term immunity to the initial infecting serotype. However, sequential infection by different serotypes leads to a greater risk of serious disease manifestations. DENV is of the genus *Flavivirus* and possesses a positive-sense single-strand RNA genome of approximately 10.6 kb that contains a single open-reading frame encoding for a polyprotein, which can be further cleaved by cellular and viral proteases into three structural proteins (capsid protein C, membrane protein M, envelope protein E), and seven non-structural proteins (NS1, NS2a, NS2b, NS3, NS4a, NS4b, NS5).

Dengue Virus Protein Schematic Diagram [Non-Structural Proteins (Orange)]



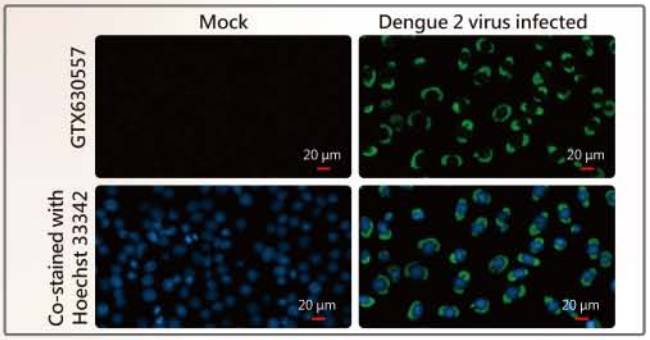
WB analysis of virus proteins in BHK-21 cells infected with dengue virus. (A) mock. (B) Virus infection.

Featured Products

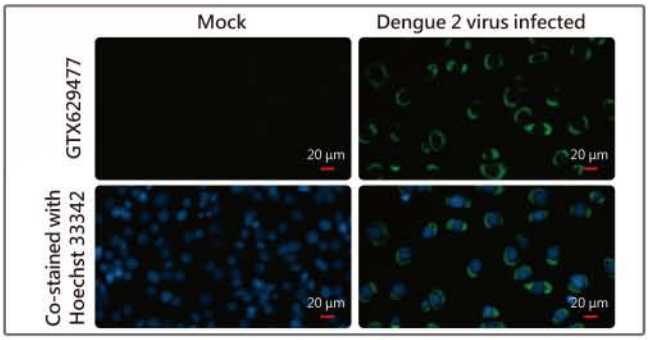


Dengue 1 virus infection | Dengue 2 virus infection | Dengue 3 virus infection | Dengue 4 virus infection

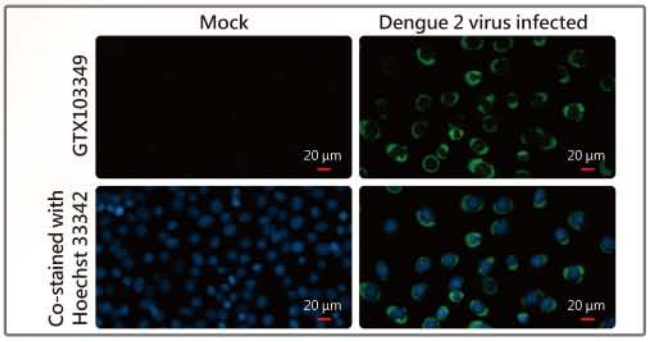
Dengue virus 1, 2, 3 & 4 antibody [D1-11(3)] (GTX29202)
ICC/IF analysis of dengue virus proteins in BHK-21 cells infected with the indicated dengue viruses.



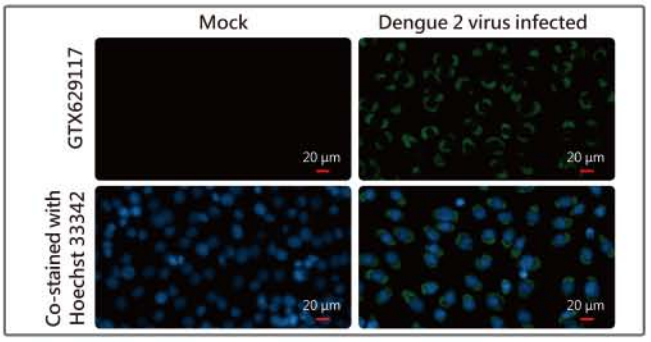
NS1 (Dengue virus) antibody [GT1061] (GTX630557)
ICC/IF anaylsis of NS1 protein in BHK-21 cells infected with dengue 2 virus.



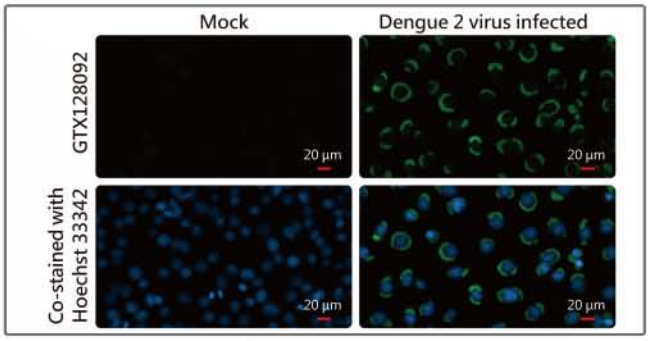
NS3 (Dengue virus) antibody [GT2811] (GTX629477)
ICC/IF anaylsis of NS3 protein in BHK-21 cells infected with dengue 2 virus.



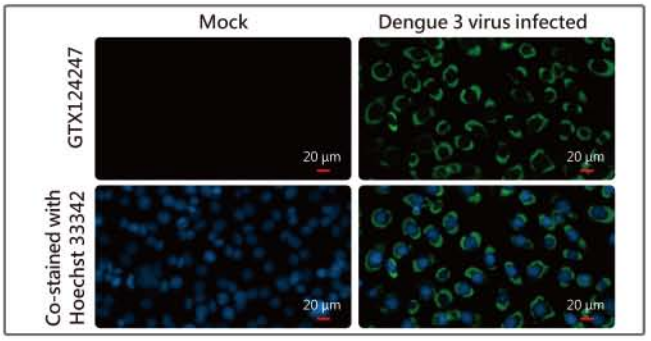
NS4B (Dengue virus) antibody (GTX103349)
ICC/IF anaylsis of NS4B protein in BHK-21 cells infected with dengue 2 virus.



Envelope Protein (Dengue virus) antibody [GT643] (GTX629117)
ICC/IF anaylsis of NS3 protein in BHK-21 cells infected with dengue 2 virus.



PrM (Dengue virus) antibody (GTX128092)
ICC/IF anaylsis of prM protein in BHK-21 cells infected with dengue 2 virus.



Capsid Protein (Dengue virus) antibody (GTX124247)
ICC/IF anaylsis of capsid protein in BHK-21 cells infected with dengue 3 virus.

Japanese encephalitis virus (JEV)

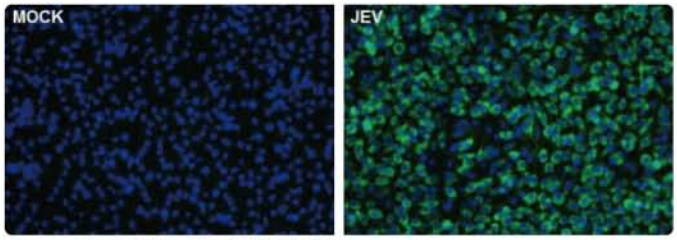
Japanese encephalitis is a very serious infectious disease caused by Japanese encephalitis virus (JEV), which belongs to the family Flaviviridae and is maintained in a zoonotic cycle involving the *Culex* genus of mosquitoes and vertebrate hosts. Endemic to most of Asia and to certain regions of the Western Pacific, JEV frequently causes severe neurologic sequelae or death in infected humans. This enveloped virus possesses a positive-sense single-stranded RNA genome packaged in a spherical nucleocapsid. The genome contains a single open reading frame that encodes for a polyprotein, which is further cleaved into three structural (C, prM, E) and seven non-structural proteins (NS1, NS2A, NS2B, NS3, NS4A, NS4B, NS5).

List of Representative Products

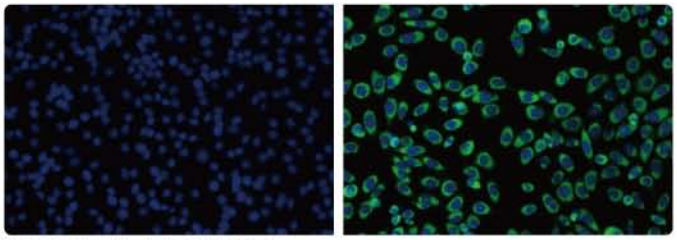
Cat. No.	Product name	Host & Clonality	Reactivity	Application
GTX131368	Core protein C (JEV) antibody	Rb pAb	JEV	WB, ICC/IF
GTX131833	PrM (JEV) antibody	Rb pAb	JEV	WB, ICC/IF
GTX125867	envelope protein (JEV) antibody	Rb pAb	JEV	ICC/IF, IHC-P, WB
GTX131369	NS1 (JEV) antibody	Rb pAb	JEV	ICC/IF, WB
GTX125972	NS2B (JEV) antibody	Rb pAb	JEV	ICC/IF, WB
GTX125868	NS3 (JEV) antibody	Rb pAb	JEV	ICC/IF, WB
GTX125865	NS4B (JEV) antibody	Rb pAb	JEV	ICC/IF, WB
GTX131359	NS5 (JEV) antibody	Rb pAb	JEV	WB, ICC/IF
GTX131360	NS5 (JEV) antibody	Rb pAb	JEV	WB, ICC/IF

JEV

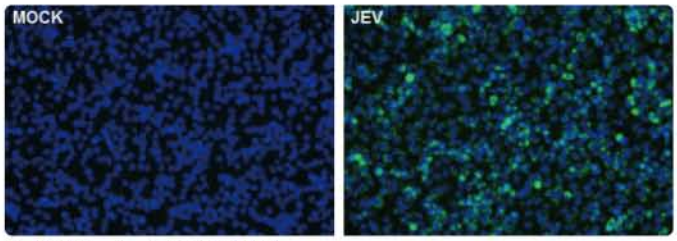
Featured Products



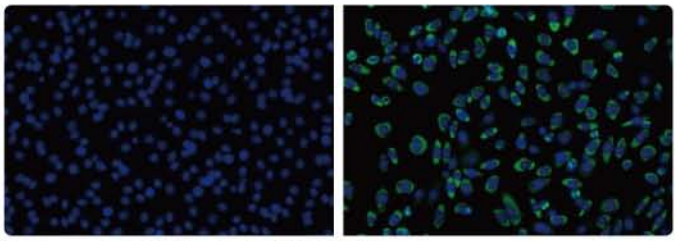
Core protein C (JEV) antibody (GTX131368)
ICC/IF analysis of Core protein C in BHK-21 cells infected with JEV.



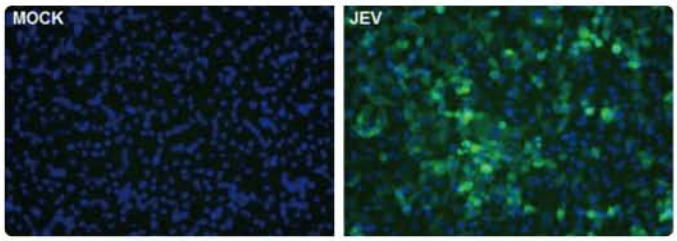
NS3 (JEV) antibody (GTX125868)
ICC/IF analysis of NS3 protein in BHK-21 cells infected with JEV.



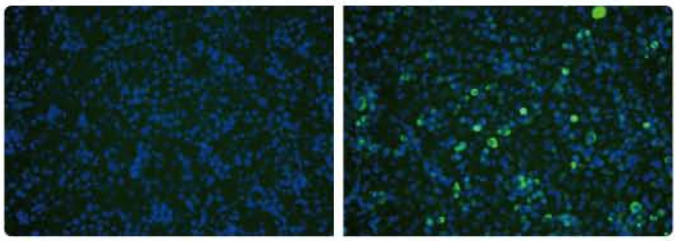
NS1 (JEV) antibody (GTX131369)
ICC/IF analysis of NS1 protein in BHK-21 cells infected with JEV.



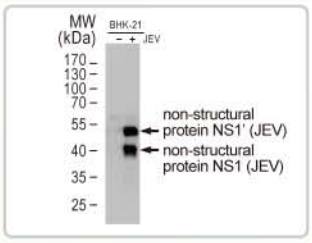
Envelope protein (JEV) antibody (GTX125867)
ICC/IF analysis of envelope protein in BHK-21 cells infected with JEV



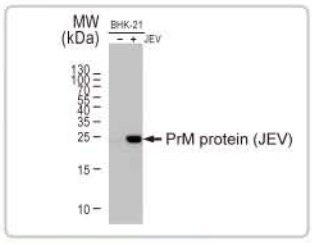
NS5 (JEV) antibody (GTX131359)
ICC/IF analysis of NS5 protein in BHK-21 cells infected with JEV.



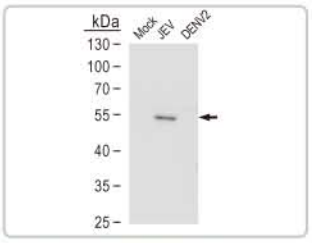
NS3 (JEV) antibody (GTX125868)
ICC/IF analysis of NS3 protein in BHK-21 cells infected with JEV.



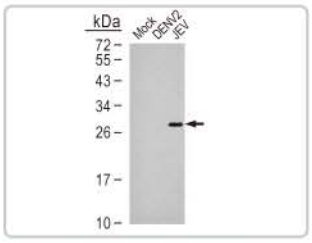
NS1 (JEV) antibody (GTX131369)
WB analysis of NS1 protein in BHK-21 cells infected with JEV.



PrM protein (JEV) antibody (GTX131833)
WB analysis of PrM protein in BHK-21 cells infected with JEV.



Envelope protein (JEV) antibody (GTX125867)
WB analysis of envelope protein in the BHK-21 cells infected with the indicated viruses.



NS4B (JEV) antibody (GTX125865)
WB analysis of NS4B protein in the BHK-21 cells infected with the indicated viruses.

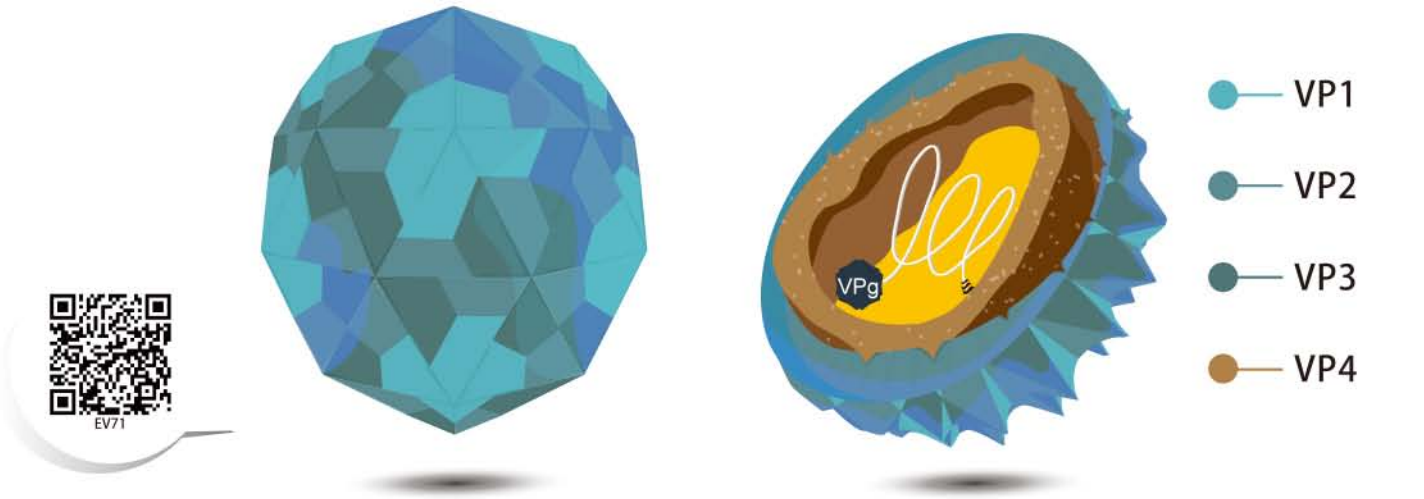
Quality Antibodies • Quality Results

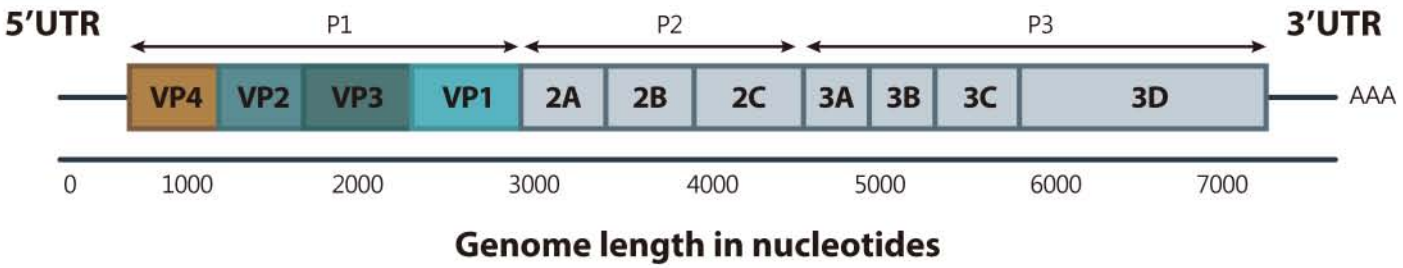
GeneTex
www.genetex.com

International
Tel 886.3.6208988
Fax 886.3.6209098
Address 6F-2, No.89, Dongmei Rd., Hsinchu 300, Taiwan (R.O.C.)
E-mail ***international***@genetex.com

USA
Toll-free 1.877.GeneTex(1.877.436.3839)
Fax 1.949.309.2888
Address 2456 Alton Parkway, Irvine, CA 92606 USA
E-mail ***info***@genetex.com

Enterovirus 71 (EV71)

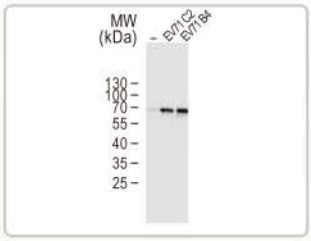




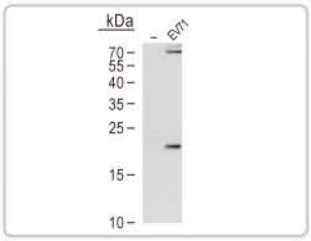
Genome length in nucleotides

Discovered in 1969, human enterovirus 71 (EV71) is the causative agent of hand-foot-and-mouth disease (HFMD) in young children, with a subset of patients developing more severe neurological disease that can result in death. As a member of the genus Enterovirus in the family Picornaviridae, EV71 has a positive-sense single-strand RNA genome coding for a 2,194 amino acid polyprotein, which is subsequently processed into four structural (VP1-VP4) and seven non-structural (2A, 2B, 2C, 3A, 3B, 3C, 3D) proteins. Identifying the specific functions of these proteins and their interactions with host factors will provide crucial information regarding EV71-associated neural pathogenesis and viral replication.

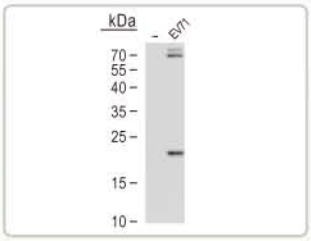
GeneTex is proud to offer an outstanding selection of antibodies for EV71 research. Please see the highlighted antibodies below or visit our website to see latest EV71 research products.



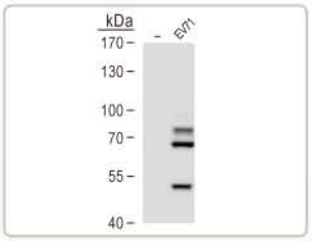
EV71 antibody (GTX124261)
WB analysis of EV71 proteins in RD cells infected with EV71 virus.



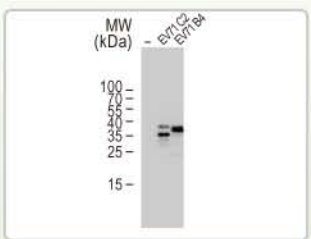
EV71 3C antibody [B2] (GTX630656)
WB analysis of EV71 3C protein in RD cells infected with EV71.



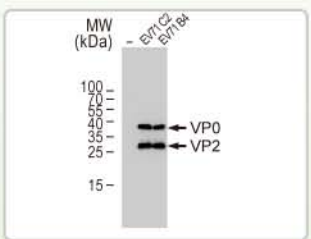
EV71 3C antibody [B3] (GTX630191)
WB analysis of EV71 3C protein in RD cells infected with EV71.



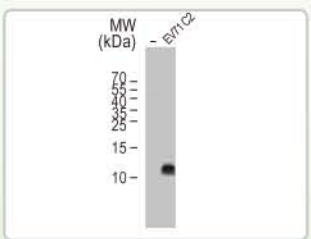
EV71 3D antibody [4] (GTX630193)
WB analysis of EV71 3D protein in RD cells infected with EV71.



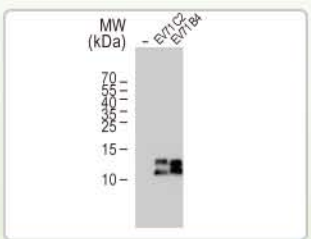
EV71 VP1 antibody (GTX132338)
WB analysis of EV71 VP1 protein in RD cells infected with EV71 virus.



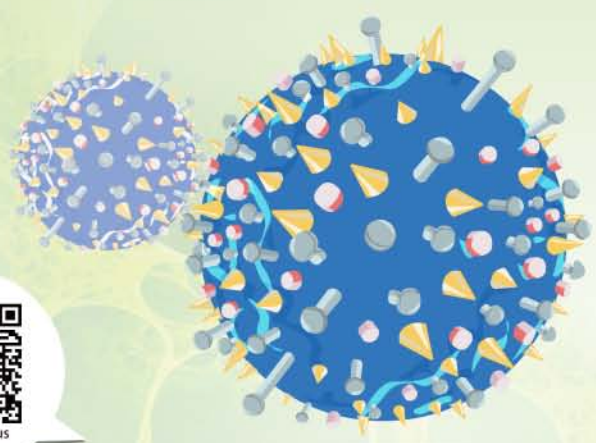
EV71 VP2 antibody (GTX132340)
WB analysis of EV71 VP2 protein in RD cells infected with EV71 virus.

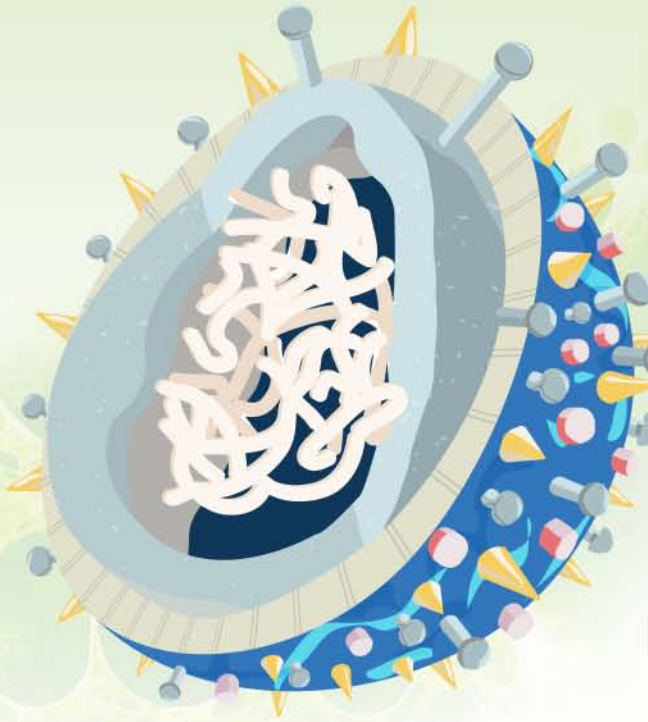


EV71 Protease 2B antibody (GTX132343)
WB analysis of EV71 2B protein in RD cells infected with EV71 virus.



EV71 Protease 3AB antibody (GTX132344)
WB analysis of EV71 3AB protein in RD cells infected with EV71 virus.

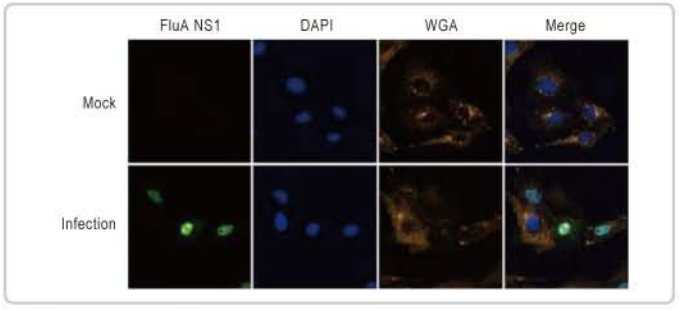




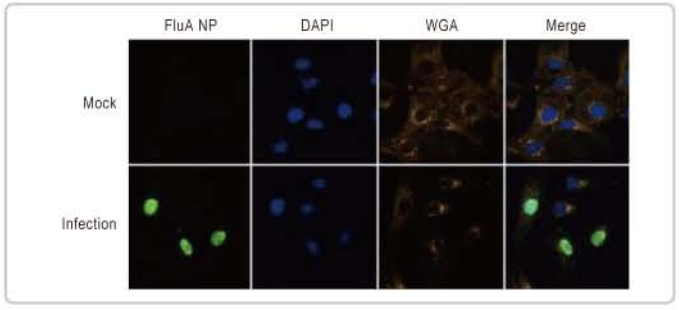
Influenza Virus

Influenza Virus

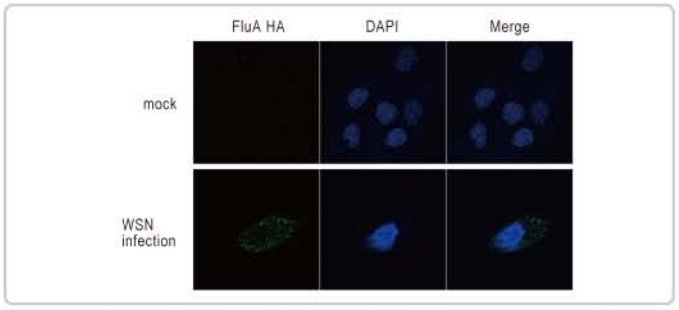
Featured Products – Influenza A



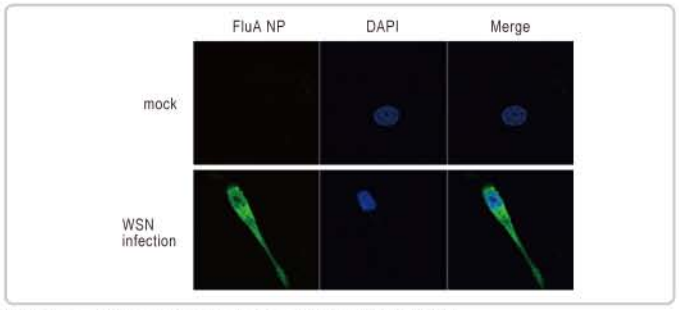
Influenza A Virus NS1 antibody (GTX125990)
ICC/IF analysis of NS1 protein in Vero cells infected with influenza A virus (WSN).



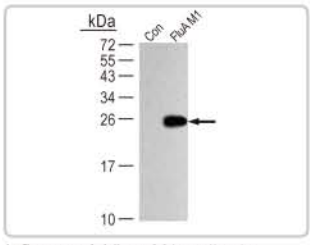
Influenza A Virus NP antibody (GTX125989)
ICC/IF analysis of NP protein in Vero cells infected with influenza A virus (WSN).



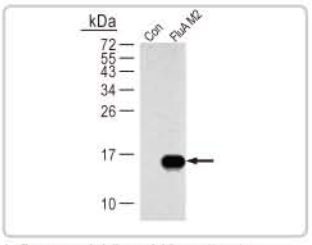
Influenza A Virus H1N1 Hemagglutinin (HA) antibody [GT223] (GTX629750)
ICC/IF analysis of H1N1 HA protein in DF1 cells infected with influenza A virus (WSN).



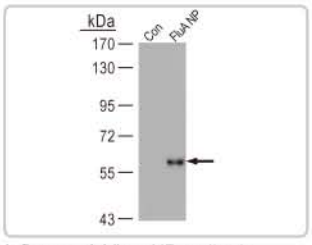
Influenza A Virus NP antibody [GT1236] (GTX629633)
ICC/IF analysis of NP protein in DF1 cells infected with influenza A virus (WSN).



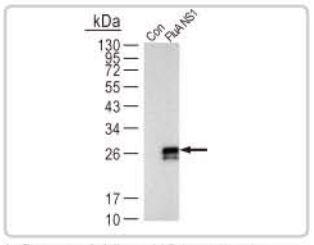
Influenza A Virus M1 antibody (GTX125928)
WB analysis of M1 protein in DF-1 cells infected with influenza A virus (WSN).



Influenza A Virus M2 antibody (GTX125951)
WB analysis of M2 protein in DF-1 cells infected with influenza A virus (WSN).

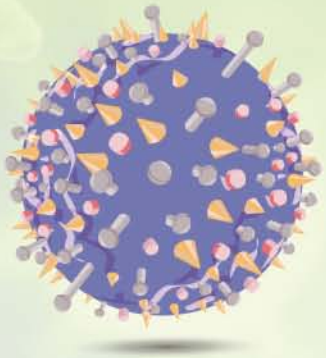


Influenza A Virus NP antibody [GT1236] (GTX629633)
WB analysis of NP protein in DF-1 cells infected with influenza A virus (WSN).

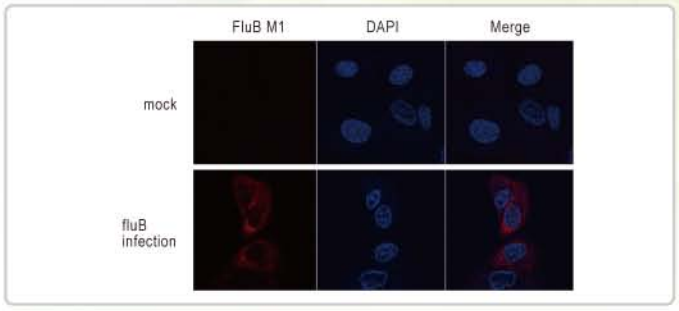


Influenza A Virus NS1 antibody (GTX125990)
WB analysis of NS1 protein in DF-1 cells infected with influenza A virus (WSN).

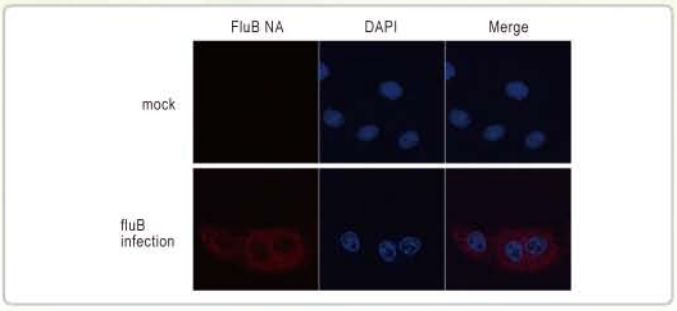
There are three types of influenza virus: Types A, B, and C. The influenza A and B viruses are the ones most associated with serious human infections, while the Type C cases are clinically much milder. The main antigenic determinants of influenza A and B viruses are the haemagglutinin (HA) and neuraminidase (NA) transmembrane glycoproteins. Based on the antigenicity of these glycoproteins, influenza A viruses are further subdivided into sixteen "H" (H1-H16) and nine "N" (N1-N9) subtypes. The influenza A virus genome consists of eight separate RNA segments that encode the proteins (i.e., PB1, PB2, PA, HA, NA, NP, M1, M2, NS1, and NS2) essential for host infection, viral genome replication, and virus particle packaging.



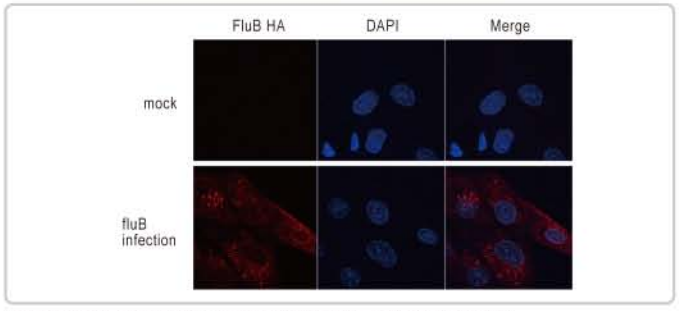
Featured Products – Influenza B



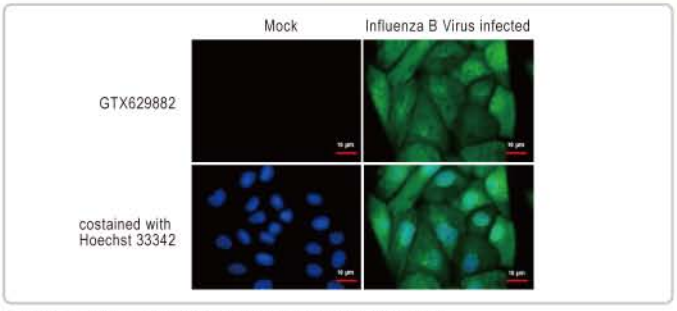
Influenza B Virus M antibody (GTX128537)
ICC/IF analysis of M protein in MDCK cells infected with influenza B virus (Taiwan B70555).



Influenza B Virus Neuraminidase (NA) antibody (GTX128540)
ICC/IF analysis of NA protein in MDCK cells infected with influenza B virus (Taiwan B70555).

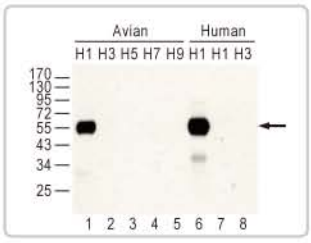


Influenza B Virus Hemagglutinin (HA) antibody (GTX128542)
ICC/IF analysis of HA protein in MDCK cells infected with influenza B virus (Taiwan B70555).

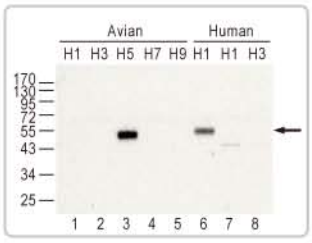


Influenza B Virus NP antibody [GT371] (GTX629882)
ICC/IF analysis of NP protein in MDCK cells infected with influenza B virus (Taiwan B70555).

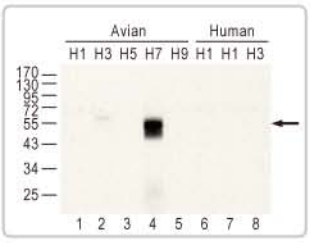
H-N Antigenicity-specific Antibodies



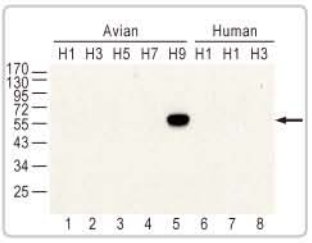
FluA H1N1 HA (GTX127295)



FluA H5N3 HA (GTX127299)



FluA H7N7 HA (GTX127303)



FluA H9N2 HA (GTX127305)

WB analysis in MDCK cell lysates infected with different subtypes of human and avian influenza virus A by using influenza A Virus H1N1 HA antibody (GTX127295), influenza A Virus H5N3 HA antibody (GTX127299), influenza A virus H7N7 HA antibody (GTX127303), and influenza A virus H9N2 HA antibody (GTX127305).