

Heartland Virus Glycoprotein 2 Antibody

Catalog # ASC11681

Product Information

Application	E
Primary Accession	J3WAX0
Other Accession	AFP33393 , 399207766
Reactivity	Virus
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	116766
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	Heartland virus glycoprotein 2 antibody can detect 10 ng Heartland virus glycoprotein 2 in ELISA at 1 µg/mL.

Additional Information

Gene ID	19893498
Reconstitution & Storage	Heartland virus glycoprotein 2 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.
Precautions	Heartland Virus Glycoprotein 2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	GP
Function	[Glycoprotein N]: Structural component of the virion that interacts with glycoprotein C (By similarity). It shields the hydrophobic fusion loops of the glycoprotein C, preventing premature fusion (By similarity). The glycoprotein protrusions are arranged on an icosahedral lattice, with T=12 triangulation (By similarity). They are able to attach the virion to the host cell receptor CD209/DC-SIGN and to promote fusion of membranes with the late endosome after endocytosis of the virion (Probable). Plays a role in the packaging of ribonucleoproteins during virus assembly (By similarity).
Cellular Location	[Glycoprotein N]: Virion membrane {ECO:0000250 UniProtKB:P09613}; Single-pass type I membrane protein {ECO:0000250 UniProtKB:P09613}. Host Golgi apparatus membrane {ECO:0000250 UniProtKB:P03518}; Single-pass type I membrane protein {ECO:0000250 UniProtKB:P09613}. Host endoplasmic reticulum membrane {ECO:0000250 UniProtKB:P09613}; Single-pass type I membrane protein {ECO:0000250 UniProtKB:P09613}. Note=Interaction between Glycoprotein N and Glycoprotein C is essential for proper targeting of Glycoprotein C to the Golgi complex, where virion budding

Background

Heartland Virus Glycoprotein 2 Antibody: The Heartland virus is a newly identified member of the phlebovirus genus of the Bunyaviridae family. Initial reports indicate that symptoms may include fever, fatigue, diarrhea, thrombocytopenia, and leukopenia (1). The Bunyaviridae family of viruses are spherical enveloped viruses with a tripartite RNA genome of negative or ambisense polarity (2). The glycoprotein RNA encodes a polyprotein that is cleaved into the G1 and G2 proteins.

References

McMullan LK, Folk SM, Kelly AJ, et al. A new phlebovirus associated with severe febrile illness in Missouri. *N. Engl. J. Med.* 2012; 367:834-41.

Schmaljohn C and Hooper JW. *Bunyaviridae: the viruses and their replication*, 4th ed. Lippincott Williams & Wilkins, Philadelphia, PA.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.