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HeV/NiV F/Fusion glycoprotein F0 Antibody [mAb66]

Catalog # ASC12270

Product Information

Application	Neut
Primary Accession	Q9IH63
Host	Mouse
Clonality	Recombinant Monoclonal
Isotype	IgG2a, kappa
Clone Names	mAb66
Calculated MW	60282
Concentration (mg/ml)	batch dependent
Conjugate	Unconjugated

Additional Information

Gene ID	920954
Other Names	Fusion glycoprotein F0, Protein F, Fusion glycoprotein F2, Fusion glycoprotein F1, F, Nipah Virus (NiV) / Hendra Virus (HeV)
Reconstitution & Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 ˚C for 1-2 weeks. Store at -80 ˚C for 12 months from the date of receipt.
Precautions	HeV/NiV F/Fusion glycoprotein F0 Antibody [mAb66] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	F
Function	Class I viral fusion protein. Under the current model, the protein has at least 3 conformational states: pre-fusion native state, pre-hairpin intermediate state, and post-fusion hairpin state. During viral and plasma cell membrane fusion, the heptad repeat (HR) regions assume a trimer-of-hairpins structure, positioning the fusion peptide in close proximity to the C-terminal region of the ectodomain. The formation of this structure appears to drive apposition and subsequent fusion of viral and plasma cell membranes. Directs fusion of viral and cellular membranes leading to delivery of the nucleocapsid into the cytoplasm. This fusion is pH independent and occurs directly at the outer cell membrane. The trimer of F1-F2 (F protein) probably interacts with G at the virion surface. Upon G binding to its cellular receptor, the hydrophobic fusion peptide is unmasked and interacts with the cellular membrane, inducing the fusion between cell and virion membranes. Later in infection, F proteins expressed at the plasma membrane of infected cells could mediate fusion with adjacent cells to form syncytia, a cytopathic effect that could lead to tissue necrosis.

Cellular Location	Virion membrane; Single-pass type I membrane protein. Host cell membrane; Single-pass membrane protein

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