Anti-Human respiratory syncytial virus(RSV) Glycoprotein G/RSV-G Monoclonal Antibody

catalog number: **E-AB-V1274**

Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description

Reactivity	RSV
Immunogen	Recombinant RSV (A, rsb1734) glycoprotein G / RSV-G Protein (95% Homology) (His Tag)
Host	Mouse
Isotype	Mouse IgG1
Clone	9H2G5C6
Purification	Protein A Affinity
Buffer	0.2 μm filtered solution in PBS.

Applications	Recommended Dilution
ELISA	1:1000-1:2000

Preparation & Storage

Storage	Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.
Shipping	The product is shipped with ice pack,upon receipt,store it immediately at the temperature recommended.

Background

Human respiratory syncytial virus (HRSV) is the most common etiological agent of acute lower respiratory tract disease in infants and can cause repeated infections throughout life. It is classified within the genus pneumovirus of the family paramyxoviridae. Like other members of the family, HRSV has two major surface glycoproteins (G and F) that play important roles in the initial stages of the infectious cycle. HRSV G protein is a type II glycoprotein of 289-299 amino acids (depending on the virus strain) with a signal/anchor hydrophobic domain and is extensively modified by the addition of both N-and O-linked oligosaccharides to achieve the mature form of 8-9 kDa. The C-terminal ectodomain of the G protein has a central region and four cysteines which are conserved in all HRSV isolates and have been proposed as the putative receptor binding site. The G protein mediates attachment of the virus to the host cell membrane by interacting with heparan sulfate, initiating the infection. As similar to mucins in amino acid compositions, the RSV G protein can interact with host CX3CR1, the receptor for the CX3C chemokine fractalkine, and thus modulates the immune response and facilitate infection. Secreted glycoprotein G helps RSV escape antibody-dependent restriction of replication by acting as an antigen decoy and by modulating the activity of leukocytes bearing Fcgamma receptors. Unlike the other paramyxovirus attachment proteins, HRSV-G lacks both neuraminidase and hemagglutinating activities.

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