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SARS virus PUPM Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP6008b

Specification

SARS virus PUPM Antibody (C-term) Blocking Peptide - Product Information

Primary Accession P59596

SARS virus PUPM Antibody (C-term) Blocking Peptide - Additional Information

Other Names
Membrane protein, M protein, E1 glycoprotein, Matrix glycoprotein, Membrane glycoprotein, M

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP6008b was selected from the C-term region of human SARS virus PUPM . A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

SARS virus PUPM Antibody (C-term) Blocking Peptide - Protein Information

Name M {ECO:0000255|HAMAP-Rule:MF_04202}

Function
Component of the viral envelope that plays a central role in virus morphogenesis and assembly via its interactions with other viral proteins.

Cellular Location
Virion membrane {ECO:0000255|HAMAP- Rule:MF_04202}; Multi-pass membrane protein {ECO:0000255|HAMAP- Rule:MF_04202}. Host Golgi apparatus membrane {ECO:0000255|HAMAP-Rule:MF_04202}; Multi-pass membrane protein {ECO:0000255|HAMAP- Rule:MF_04202}. Note=Largely embedded in the lipid bilayer {ECO:0000255|HAMAP-Rule:MF_04202}

SARS virus PUPM Antibody (C-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

SARS virus PUPM Antibody (C-term) Blocking Peptide - Images

SARS virus PUPM Antibody (C-term) Blocking Peptide - Background

An outbreak of atypical pneumonia, referred to as severe acute respiratory syndrome (SARS) and first identified in Guangdong Province, China, has spread to several countries. The severity of this disease is such that the mortality rate appears to be ~3 to 6%. A number of laboratories worldwidehave undertaken the identification of the causative agent. The National Microbiology Laboratory in Canada obtained the Tor2 isolate from a patient in Toronto, and succeeded in growing a coronavirus-like agent in AfricanGreen Monkey Kidney (Vero E6) cells. This coronavirus has been named publicly by the World Health Organization and member laboratories as ?SARS virus?.The SARS membrane proteins, including the major proteins S (Spike) and M (Membrane), are inserted into the endoplasmic reticulum Golgi intermediate compartment (ERGIC) while full length replicated RNA (+ strands) assemble with the N (nucleocapsid) protein. The virus then migrates through the Golgi complex and eventually exits the cell, likely by exocytosis. The site of viral attachment to the host cell resides within the S protein.Oligomeric spike (S) glycoproteins extend from SARS membranes. These integral membrane proteins assemble within the endoplasmic reticulum of infected cells and are subsequently endoproteolyzed in the Golgi, generating noncovalently associated S1 and S2 fragments. Once on the surface of infected cells and virions, peripheral S1 fragments bind carcinoembryonic antigen-related cell adhesion molecule (CEACAM) receptors, and this triggers membrane fusion reactions mediated by integral membrane S2 fragments.

SARS virus PUPM Antibody (C-term) Blocking Peptide - References

He, R., et al., Biochem. Biophys. Res. Commun. 316(2):476-483 (2004).Zhang, X.L., et al., Sheng Wu Hua Xue Yu Sheng Wu Wu Li Xue Bao 35(12):1140-1144 (2003).Snijder, E.J., et al., J. Mol. Biol. 331(5):991-1004 (2003).Marra, M.A., et al., Science 300(5624):1399-1404 (2003).