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SARS Matrix Antibody

Catalog # ASC10327

Product Information

Application	E
Primary Accession	P59596
Other Accession	P59596, 30173398
Reactivity	Virus
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	25061
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	SARS matrix antibody can be used for the detection of SARS matrix protein in ELISA. It will detect 10 ng of free peptide at 1 □g/mL.

Additional Information

Other Names	SARS Matrix Antibody: Membrane protein, E1 glycoprotein, M protein, Membrane protein
Target/Specificity	M;
Reconstitution & Storage	SARS Matrix antibody can be stored at 4℃ for three months and -20℃, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	SARS Matrix Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

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}

Background

SARS Matrix Antibody: A novel coronavirus has recently been identified as the causative agent of SARS (Severe Acute Respiratory Syndrome). Coronaviruses are a major cause of upper respiratory diseases in humans. The genomes of these viruses are positive-stranded RNA approximately 27-31kb in length. The M protein (Membrane protein, Matrix protein) is one of the major structural viral proteins. It is an integral membrane protein involved in the budding of the viral particles and interacts with S (Spike) protein and the nucleocapsid protein.

References

Marra MA, Jones SJ, Astell CR, et al. The Genome sequence of the SARS-associated corona virus. Science 2003;300:1399-404.
Rota PA, Oberste MS, Monroe SS, et al. Characterization of a novel coronavirus associated with severe acute respiratory syndrome. Science 2003;300:1394-9.
Navas-Nartin SR and Weiss S. Coronavirus replication and pathogenesis: Implications for the recent outbreak of severe acute respiratory syndrome (SARS), and the challenge for vaccine development. J Neurovirol. 2004;10:75-85.
Opstelten DJ, Raamsman MJ, Wolfs K, et al. Envelope glycoprotein interactions in coronavirus assembly. J Cell Biol. 1995;131:339-49.

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