

# SARS Matrix Antibody

Catalog # ASC10327

## Product Information

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<b>Application</b>	E
<b>Primary Accession</b>	<a href="#">P59596</a>
<b>Other Accession</b>	<a href="#">P59596</a> , <a href="#">30173398</a>
<b>Reactivity</b>	Virus
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG
<b>Calculated MW</b>	25061
<b>Concentration (mg/ml)</b>	1 mg/mL
<b>Conjugate</b>	Unconjugated
<b>Application Notes</b>	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 µg/mL.

## Additional Information

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<b>Other Names</b>	SARS Matrix Antibody: Membrane protein, E1 glycoprotein, M protein, Membrane protein
<b>Target/Specificity</b>	M;
<b>Reconstitution &amp; Storage</b>	SARS Matrix antibody can be stored at 4°C for three months and -20°C, 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.
<b>Precautions</b>	SARS Matrix Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	M {ECO:0000255   HAMAP-Rule:MF_04202}
<b>Function</b>	Component of the viral envelope that plays a central role in virus morphogenesis and assembly via its interactions with other viral proteins.
<b>Cellular Location</b>	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

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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

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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'.