

**SARS Spike Antibody**  
**Catalog # ASC10219****Specification**

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**SARS Spike Antibody - Product Information**

|                   |                                                                                                                                    |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Application       | E                                                                                                                                  |
| Primary Accession | <a href="#">P59594</a>                                                                                                             |
| Other Accession   | <a href="#">P59594</a> , <a href="#">30173397</a>                                                                                  |
| Reactivity        | Virus                                                                                                                              |
| Host              | Rabbit                                                                                                                             |
| Clonality         | Polyclonal                                                                                                                         |
| Isotype           | IgG                                                                                                                                |
| Application Notes | SARS Spike antibody can be used for the detection of SARS Spike protein in ELISA. It will detect 10 ng of free peptide at 1 µg/mL. |

**SARS Spike Antibody - Additional Information**

|                                                                                     |         |
|-------------------------------------------------------------------------------------|---------|
| Gene ID                                                                             | 1489668 |
| <b>Other Names</b>                                                                  |         |
| SARS Spike Antibody: E2, Spike glycoprotein, E2, S glycoprotein, Spike glycoprotein |         |

**Target/Specificity**

S;

**Reconstitution & Storage**

SARS Spike 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.

**Precautions**

SARS Spike Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**SARS Spike Antibody - Protein Information****Name** S {ECO:0000255|HAMAP-Rule:MF\_04099}**Function**

[Spike glycoprotein]: May down-regulate host tetherin (BST2) by lysosomal degradation, thereby counteracting its antiviral activity.

**Cellular Location**

Virion membrane {ECO:0000255|HAMAP-Rule:MF\_04099, ECO:0000269|PubMed:15831954}; Single-pass type I membrane protein {ECO:0000255|HAMAP-Rule:MF\_04099, ECO:0000269|PubMed:15831954}. Host endoplasmic reticulum-Golgi intermediate compartment membrane {ECO:0000255|HAMAP-Rule:MF\_04099, ECO:0000269|PubMed:20861307}; Single-

pass type I membrane protein {ECO:0000255|HAMAP-Rule:MF\_04099, ECO:0000269|PubMed:15831954}. Host cell membrane {ECO:0000255|HAMAP-Rule:MF\_04099, ECO:0000269|PubMed:15831954}; Single-pass type I membrane protein {ECO:0000255|HAMAP-Rule:MF\_04099, ECO:0000269|PubMed:15831954}. Note=Accumulates in the endoplasmic reticulum-Golgi intermediate compartment, where it participates in virus particle assembly. Colocalizes with S in the host endoplasmic reticulum-Golgi intermediate compartment (PubMed:20861307). Some S oligomers are transported to the host plasma membrane, where they may mediate cell-cell fusion. {ECO:0000255|HAMAP-Rule:MF\_04099, ECO:0000269|PubMed:20861307}

## **SARS Spike Antibody - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## **SARS Spike Antibody - Images**

## **SARS Spike Antibody - Background**

SARS Spike 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. SARS infection can be mediated by the binding of the viral spike protein, a glycosylated 139 kDa protein and the major surface antigen of the virus, to the angiotensin-converting enzyme 2 (ACE2) on target cells. This binding can be blocked by a soluble form of ACE2.

## **SARS Spike Antibody - 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.

Li W, Moore MJ, Vasileva N, et al. Angiotensin-converting enzyme 2 is a functional receptor for the SARS coronavirus. Nature 2003;426:450-4.