

□ **Cat # AB-17910**    Mouse Monoclonal Anti SARS Spike IgG

**Size:** □ 50 ug

SARS Coronavirus is an enveloped virus containing three outer structural proteins, namely the membrane (M), envelope (E), and spike (S) proteins. Spike (S)-glycoprotein of the virus interacts with a cellular receptor and mediates membrane fusion to allow viral entry into susceptible target cells. Accordingly, S-protein plays an important role in virus infection cycle and is the primary target of neutralizing antibodies. It has recently been shown that SARS (severe acute respiratory syndrome) is caused by a human coronavirus. Human corona viruses are the major cause of upper respiratory tract illness, such as the common cold, in humans. Corona viruses are positive-stranded RNA viruses, featuring the largest viral RNA genomes known to date (27-31 kb). The first step in coronavirus infection is binding of the viral spike protein, a 139-kDa protein (125-aa), to certain receptors on host cells. The spike protein is the main surface antigen of the coronavirus. The glycosylated spike protein (as well as the nucleocapsid protein) can be detected in infected cell culture supernatants with antisera from SARS patients.

#### Source of Antibodies

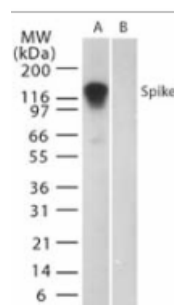
<b>Antigen</b>	A peptide from the putative SARS Spike glycoprotein (Genbank accession no. NP_828851) corresponding to amino acids 19-35
<b>Ab Host/type</b>	Mouse, Monoclonal , IgG1k, Aff pure IgG ( <b>cat #</b> AB-17910) in PBS, pH 7.5 containing 0.2% gelatin and 0.05% azide,
<b>2-ab</b>	Goat Anti-mouse IgG-HRP conjugate Cat # 40320 (AP, biotin, FITC conjugates also available)
<b>-ve control IgG</b>	Cat # 20008-1, Mouse (non-immune) Serum IgG, purified, suitable for ELISA, Western, IHC as -ve control

#### Isotype Controls

Catalog#	ProdDescription
20102-101	Mouse IgG1 isotype control, purified
20102-101-1	Mouse IgG1 isotype control, purified
20102-101-APC	Mouse IgG1-APC conjugate (isotype control)
20102-101-B	Mouse IgG1-Biotin conjugate (isotype control)
20102-101-F	Mouse IgG1-FITC conjugate (isotype control)
20102-101-FP	Mouse IgG1-FITC-PE conjugate (isotype control)
20102-101-HP	Mouse IgG1-HRP conjugate (isotype control)
20102-101-PC5	Mouse IgG1-PE-Cy5 conjugate (isotype control)
20102-101-PE	Mouse IgG1-PE conjugate (isotype control)

#### Storage:

Store at 4C. stable for 6 months.  
For long-term storage, store at -200C.



Western blot analysis of SARS Spike in (A) transfected mouse melanoma cell lysate and (B) untransfected cell lysates.

Suggested concn: 1-2 ug/ml

ELISA: 0.1-2 ug/ml using 50-200 ng/antigen

**References:** He R (2004) BBRC 316, 476-483; Snijder EJ (2003) J. Mol. Biol. 331, 991-1004; Marra MA (2003) Sciences 300, 1399-1404; Krohkin O (2003) MOI. Cell. Proteomics 2, 346-356;

#### Usage:

This item is for LABORATORY RESEARCH USE ONLY.

#### Related Items

Catalog# ProdDescription

AB-15710 Anti-SARS Spike Protein IgG  
 AB-17810 Mouse Anti-SARS Nucleocapsid protein IgG  
 AB-17910 Mouse Anti-SARS Spike IgG  
 AB-18010 Anti-SARS Nucleocapsid Protein IgG  
 AR-273-USARS coronavirus NTPase/Helicase (ES15-1), RNA Aptamer, unlabeled  
 MA-20018 Mouse Monoclonal Anti-Human severe acute respiratory syndrome (SARS-E2)  
 MA-20019 Mouse Monoclonal Anti-Human severe acute respiratory syndrome (SARS)-M  
 RP-1416 Recombinant SARS-CoV Nucleocapsid (1-422)  
 RP-1417 Recombinant SARS Associated Coronavirus Matrix  
 RP-1418 Recombinant SARS Associated Coronavirus Envelope  
 RP-1419 Recombinant SARS Associated Coronavirus Nucleocapsid (1-49)  
 RP-1420 Recombinant SARS Associated Coronavirus Nucleocapsid (340-390)  
 RP-1421 Recombinant SARS Associated Coronavirus Nucleocapsid (1-49,192-220)  
 RP-1422 Recombinant SARS Associated Spike Mosaic S(M)  
 RP-1423 Recombinant SARS Associated Spike Mosaic S©  
 RP-1424 Recombinant SARS Associated Spike Mosaic S(N)

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