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Product Data Sheet

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Cat # AB-17910

Mouse Anti SARS Spike IgG

**Size:** 50ug

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**Type:**

Mouse antibody Monoclonal

**Introduction:**

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 coronaviruses are the major cause of upper respiratory tract illness, such as the common cold, in humans. Coronaviruses 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, 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.

**Ig Subclass:**

Mouse IgG1,k; 100 ug in 200 ul PBS containing 0.2% gelatin and 0.05% sodium azide. This monoclonal antibody can be used for detection of SARS Spike protein in western blot analysis at 1-3 ug/ml. The antibody was tested on a cell line transfected with full-length cDNA coding for the SARS Spike protein with a predicted molecular weight of 139 kDa.

**Antigen:**

The antibody was developed using a synthetic peptide from the putative SARS Spike glycoprotein(Genbank accession no.NP\_828851)corresponding to amino acids 19-35.

**Storage:**

Store at 4C, stable for 6 months. For long-term storage, store at -20°C. Western blot analysis of SARS Spike in (A) transfected mouse melanoma cell lysate and (B) untransfected cell lysate

**Usage:**

This item is for LABORATORY ESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals. If supplied in powder then reconstitute it in 100 ul water for 1 mg/ml stock and store in liquid at 4oC for ~1 week or aliquots in suitable size and store at -20oC for long term storage..

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