

Mouse Anti SARS Spike protein
Certificate of Analysis and Data Sheet

↻ Catalog No. ANT-178	↻ Ig SUBCLASS Mouse IgG1,k
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↻ **Background:**

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.

↻ **Description:**

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.

↻ **Formulation:**

0.5 mg/ml PBS containing 0.2% gelatin and 0.05% sodium azide.

↻ **Storage Procedure:**

Lyophilized: store at 4° C. After reconstitution, if not used within a month, aliquot and store at 20° C.

↻ **Reconstitution:**

Reconstitute with 0.5 ml of H₂O. Mix gently, wash the sides of the vial and wait 30-60 seconds before use.

↻ **Stability / Shelf life:**

Store at 4°C, stable for 6 months. For long-term storage, store at -20°C

➤ **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.

➤ **Applications :**

Detection of SARS Spike protein in western blot analysis at 1-3 ug/ml.

➤ **Usage:**

This material is offered for research, laboratory or further evaluation purposes.