

Product Data Sheet

Cat # AB-18010

Anti SARS Nucleocapsid Protein IgG

**Size:** 100 ug 200 ug

**Type:**

Polyclonal Rabbit Antibody

**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.

**Background:**

It has recently been shown that SARS is caused by a human coronavirus. Human coronaviruses are the major cause of upper respiratory tract illness in humans, such as the common cold. 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 most prominent protein in the culture supernatants infected with SARS virus is a 46 kDa nucleocapsid protein. This suggests that the nucleocapsid protein is a major immunogen that may be useful for early diagnostics.

**Contents:**

100µgs in 200µl PBS containing 0.2% gelatin and 0.05% sodium azide.

**Isotype:**

Rabbit Ig

**Antigen:**

The antibody was developed by immunizing rabbits with synthetic peptides corresponding to amino a.a. 399-411 of putative SARS nucleocapsid (Genbank accession no. NP\_828858).

**Applications:**

This polyclonal antibody can be used for detection of SARS Nucleocapsid protein in western blot analysis at a dilution of 1:100-1:2000. It can also be used in cell staining.

**Storage:**

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

Western blot analysis of SARS Nucleocapsid in (A) untransfected mouse melanoma cell lysate and (B) transfected cell lysate using IMG-548 at a 1:2000 dilution

**Usage:**

This item is for LABORATORY RESEARCH 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 µl water for 1 mg/ml stock and store in liquid at 4°C for ~1 week or aliquots in suitable size and store at -20°C for long term storage.

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