abcam

Product datasheet

Recombinant Human coronavirus SARS Nucleocapsid Protein ab270825

Description

Product name	Recombinant Human coronavirus SARS Nucleocapsid Protein
Purity	> 95 % SDS-PAGE.
Expression system	Escherichia coli
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human coronavirus
Predicted molecular weight	32 kDa
Amino acids	1 to 49
Tags	GST tag C-Terminus
Additional sequence information	SARS Coronavirus Nucleoprotein (N-Term). Contains Nucleocapsid core protein, 1-49 amino acids immunodominant regions.

Specifications

Our **Abpromise guarantee** covers the use of **ab270825** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	ELISA Western blot SDS-PAGE
Form	Liquid

Preparation and Storage

Stability and Storage	Shipped on Dry Ice. Store at -20°C or -80°C. Avoid freeze / thaw cycle. pH: 7 Constituents: 0.35% Sodium chloride, 50% Glycerol (glycerin, glycerine), 0.79% Tris HCl

General Info

Relevance

Severe Acute Respiratory Syndrome (SARS), an emerging disease characterized by atypical pneumonia, has recently been attributed to a novel coronavirus (SARS-CoV). SARS is caused by a human coronavirus, which 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 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. The nucleocapsid protein of SARS shares little homology with nucleocapsid proteins of other members of the coronavirus family. Nucleocapsid proteins of other coronavirus have been reported to be involved in forming the viral core and also in the packaging and transcription of the viral RNA.

Cellular localization

Inside the virion, complexed with the viral RNA. May be associated with cellular membranes where it participates in viral RNA synthesis and virus budding.

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