abcam

Product datasheet

Recombinant SARS Nucleocapsid Protein (Coronavirus) ab63311

1 Image

Description

Product name	Recombinant SARS Nucleocapsid Protein (Coronavirus)
Purity	> 95 % SDS-PAGE. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture. ab63311 was purifed using Ni-NTA chromatography.
Endotoxin level	< 0.100 Eu/µg
Expression system	Escherichia coli
Accession	P59595
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Sequence	MRGSHHHHHH GMASHMSDNG PQSNQRSAPR ITFGGPTDST DNNQNGGRNG ARPKQRRPQG LPNNTASWFT ALTQHGKEEL RFPRGQGVPI NTNSGPDDQI GYYRRATRRV RGGDGKMKEL SPRWYFYYLG TGPEASLPYG ANKEGIVWVA TEGALNTPKD HIGTRNPNNN AATVLQLPQG TTLPKGFYAE GSRGGSQASS RSSSRSRGNS RNSTPGSSRG NSPARMASGG GETALALLLL DRLNQLESKV SGKGQQQQGQ TVTKKSAAEA SKKPRQKRTA TKQYNVTQAF GRRGPEQTQG NFGDQDLIRQ GTDYKHWPQI AQFAPSASAF FGMSRIGMEV TPSGTWLTYH GAIKLDDKDP QFKDNVILLN KHIDAYKTFP PTEPKKDKKK KTDEAQPLPQ RQKKQPTVTL LPAADMDDFS RQLQNSMSGA SADSTQA
Predicted molecular weight	48 kDa including tags
Amino acids	16 to 437
Tags	His tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab63311** in the following tested applications.

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

Applications	Western blot SDS-PAGE
Form	Lyophilized
Additional notes	Reconstituted protein can be stored at 4 °C for a week.

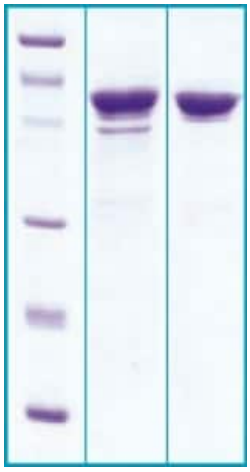
Preparation and Storage

Stability and Storage	Shipped at 4°C. Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle. Please see notes section. Constituent: 0.082% Sodium acetate
Reconstitution	Add 0.1M Acetate buffer pH4 to prepare a working stock solution of approximately 0.5 mg/ml and let the lyophilized pellet dissolve completely. For conversion into higher pH value, we recommend intensive dilution by relevant buffer to a concentration of 10µg/ml. In higher concentrations the solubility of this antigen is limited.

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.

Images



SDS-PAGE - Recombinant SARS Nucleocapsid Protein (Coronavirus) (ab63311)

1. MW marker – 14, 21, 31, 45, 66, 97 kDa
2. reduced and heated sample, 5µg/lane
3. non-reduced and non-heated sample, 5µg/lane

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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