

Rabbit SARS virus Sn Polyclonal Antibody | anti-S antibody

SARS virus Sn Antibody

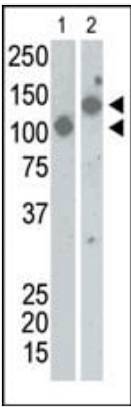
CATALOG # AAA285264	HOST Rabbit	APPLICATIONS ELISA, Western Blot
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PRODUCT SYNONYMS

SARS virus Sn; Polyclonal Antibody; SARS virus Sn Antibody; Spike glycoprotein; S glycoprotein; E2; Peplomer protein; Spike protein S1; Spike protein S2; S; anti-S antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This SARS virus Sn antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 13-42 amino acids from the N-terminus of SARS CoV Spike protein.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Sequence Positions	13-42
Sequence Length	1,255
Applicable Applications for anti-S antibody	ELISA, WB (Western Blot)
Function	Spike glycoprotein]: May down-regulate hosttetherin (BST2) by lysosomal degradation,thereby counteracting its antiviral activity.
Cellular Location	Virion membrane{ECO:0000255 HAMAP-Rule:MF_04099,ECO:0000269 PubMed:15831954};Single-pass type I membrane protein{ECO:0000255 HAMAP-Rule:MF_04099,ECO:0000269 PubMed:15831954}. Hostendoplasmic reticulum-Golgi intermediatecompartment membrane{ECO:0000255 HAMAP-Rule:MF_04099,ECO:0000269 PubMed:20861307}; Single-pass type I membrane protein{ECO:0000255 HAMAP-Rule:MF_04099,ECO:0000269 PubMed:15831954}. Host cellmembrane {ECO:0000255 HAMAP-Rule:MF_04099,ECO:0000269 PubMed:15831954};Single-pass type I membrane protein{ECO:0000255 HAMAP-Rule:MF_04099,ECO:0000269 PubMed:15831954}.Note=Accumulates in the endoplasmicreticulum-Golgi intermediate compartment,where it participates in virus particleassembly. Colocalizes with S in the hostendoplasmic reticulum-Golgi intermediatecompartment (PubMed:20861307). Some Soligomers are transported to the host plasmamembrane, where they may mediate cell-cellfusion.{ECO:0000255 HAMAP-Rule:MF_04099,ECO:0000269 PubMed:20861307}
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.



WB (Western Blot)
The anti-SARS-Sn Pab is used in Western blot to detect recombinant Spike proteins, aa17-537 (Lane 1) and aa17-756 (Lane 2).

ADDITIONAL INFORMATION

Related Product Information for anti-S antibody	An outbreak of atypical pneumonia, referred to as severe acute respiratory syndrome (SARS) and first identified in Guangdong Province, China, has spread to several countries. The severity of this disease is such that the mortality rate appears to be ~3 to 6%. A number of laboratories worldwide have undertaken the identification of the causative agent. The National Microbiology Laboratory in Canada obtained the Tor2 isolate from a patient in Toronto, and succeeded in growing a coronavirus-like agent in African Green Monkey Kidney (Vero E6) cells. This coronavirus has been named publicly by the World Health Organization and member laboratories as "SARS virus". The SARS membrane proteins, including the major proteins S (Spike) and M (Membrane), are inserted into the endoplasmic reticulum Golgi intermediate compartment (ERGIC) while full length replicated RNA (+ strands) assemble with the N (nucleocapsid) protein. The virus then migrates through the Golgi complex and eventually exits the cell, likely by exocytosis. The site of viral attachment to the host cell resides within the S protein. Oligomeric spike (S) glycoproteins extend from SARS membranes. These integral membrane proteins assemble within the endoplasmic reticulum of infected cells and are subsequently endoproteolyzed in the Golgi, generating noncovalently associated S1 and S2 fragments. Once on the surface of infected cells and virions, peripheral S1 fragments bind carcinoembryonic antigen-related cell adhesion molecule (CEACAM) receptors, and this triggers membrane fusion reactions mediated by integral membrane S2 fragments.
References	He, R., et al., Biochem. Biophys. Res. Commun. 316(2):476-483 (2004). Snijder, E.J., et al., J. Mol. Biol. 331(5):991-1004 (2003). Marra, M.A., et al., Science 300(5624):1399-1404 (2003). Krokshin, O., et al., Mol Cell Proteomics 2(5):346-356 (2003).

NCBI AND UNIPROT INFORMATION

NCBI GI #	30173397
UniProt Accession #	P59594; Q6QU82; Q7T696; Q7TA19; Q7TFA2; Q7TFB1; Q80BV6
NCBI Official Full Name	Spike glycoprotein
UniProt Protein Name	Spike glycoprotein
UniProt Gene Name	S
UniProt Synonym Gene Names	S glycoprotein
UniProt Entry Name	SPIKE_CVHSA

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.