

SARS virus PUP1 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP6001a

Product Information

Application	E
Primary Accession	Q6VA99
Other Accession	P59632 , NP_828852
Reactivity	SARS
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB3783-3784
Calculated MW	30903
Antigen Region	118-148

Additional Information

Target/Specificity	This SARS virus PUP1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide selected from aa 118-148 of SARS virus PUP1.
Dilution	E~~Use at an assay dependent concentration.
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.
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.
Precautions	SARS virus PUP1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	Q6VA99
Cellular Location	Host cell membrane {ECO:0000256 ARBA:ARBA00004598}; Multi-pass membrane protein {ECO:0000256 ARBA:ARBA00004598}. Host cytoplasm {ECO:0000256 ARBA:ARBA00004192}. Secreted {ECO:0000256 ARBA:ARBA00004613}. Virion {ECO:0000256 ARBA:ARBA00004328}

Background

The SARS-CoV genome contains five major open reading frames (ORFs) that encode the replicase polyprotein (R), the spike (S), envelope (E), and membrane (M) glycoproteins; and the nucleocapsid protein (N). Other proteins not falling into these categories have been termed PUPs (putative uncharacterized proteins) for their unknown structural or functional features and dissimilarity to those known sequences. However, it has been found that some of the PUPs matched the entries in the NCBI database. PUP1 is equivalent to ORF3 in Isolate Tor2. It receives 11 hits in GenBank through BLAST, two of which are putative transmembrane proteins. One is from *Ralstonia solanacearum*, cytochrome b-561, with 97 amino acids of PUP1 aligned, and the other is from *Sinorhizobium meliloti*, with 94 amino acids aligned. Sequence identities are 28% and 25%, respectively. Three putative transmembrane domains are located within PUP1.

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).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.