

**SARS virus PUP1 Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP6001a****Specification**

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**SARS virus PUP1 Antibody (N-term) Blocking Peptide - Product Information**

Primary Accession [Q6VA99](#)  
Other Accession [NP\\_828852](#)

**SARS virus PUP1 Antibody (N-term) Blocking Peptide - Additional Information****Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP6001a](/product/products/AP6001a) was selected from the N-term region of human SARS virus PUP1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**SARS virus PUP1 Antibody (N-term) Blocking Peptide - Protein Information**

**Name** Q6VA99

**Cellular Location**

Cell membrane {ECO:0000256|ARBA:ARBA00004651}; Multi-pass membrane protein {ECO:0000256|ARBA:ARBA00004651}. Cytoplasm {ECO:0000256|ARBA:ARBA00004496}. Host cell membrane {ECO:0000256|ARBA:ARBA00004598}; Multi-pass membrane protein {ECO:0000256|ARBA:ARBA00004598}. Host cytoplasm {ECO:0000256|ARBA:ARBA00004192}. Membrane {ECO:0000256|ARBA:ARBA00004141}; Multi-pass membrane protein {ECO:0000256|ARBA:ARBA00004141}. Secreted {ECO:0000256|ARBA:ARBA00004613}. Virion {ECO:0000256|ARBA:ARBA00004328}

**SARS virus PUP1 Antibody (N-term) Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

**SARS virus PUP1 Antibody (N-term) Blocking Peptide - Images**

### **SARS virus PUP1 Antibody (N-term) Blocking Peptide - 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.

### **SARS virus PUP1 Antibody (N-term) Blocking Peptide - 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).