

SARS virus PUP2 Antibody (N-term) Blocking Peptide

Synthetic peptide

Catalog # BP6002a

Specification**SARS virus PUP2 Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [P59633](#)
Other Accession [NP_828853](#)**SARS virus PUP2 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 1489670**Other Names**

Non-structural protein 3b, ns3b, Accessory protein 3b, Protein X2, 3b

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP6002a](/product/products/AP6002a) was selected from the N-term region of human SARS virus PUP2. 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 PUP2 Antibody (N-term) Blocking Peptide - Protein Information**Name** 3b**SARS virus PUP2 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. PUP2 has a counterpart in Isolate Tor2, the ORF4. It matches 4 segments of different entries in GenBank: 138 amino acids with NADH dehydrogenase subunit2 of *Laudakia stoliczkana*, 137 amino acids with a hypothetical protein of *Methanosarcina barkeri*, 85 amino acids with myosin IXb of *Homo sapiens*, and 85 amino acids with MY9B HUMAN myosin IXb. All of these alignments are 28% identical.

SARS virus PUP2 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).

Function

Induces host cell G0/G1 arrest and apoptosis.

Cellular Location

Host nucleus, host nucleolus. Host mitochondrion

**SARS virus PUP2 Antibody (N-term)
Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)