

SARS Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP7834a**Specification**

SARS Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [P49591](#)**SARS Antibody (N-term) Blocking Peptide - Additional Information**

Gene ID 6301

Other Names

Serine--tRNA ligase, cytoplasmic, Seryl-tRNA synthetase, SerRS, Seryl-tRNA(Ser/Sec) synthetase, SARS, SERS

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP7834a](/products/AP7834a) was selected from the N-term region of human SARS. 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 Antibody (N-term) Blocking Peptide - Protein InformationName SARS1 ([HGNC:10537](#))

Synonyms SARS, SERS

Function

Catalyzes the attachment of serine to tRNA(Ser) in a two-step reaction: serine is first activated by ATP to form Ser-AMP and then transferred to the acceptor end of tRNA(Ser) (PubMed: [22353712](http://www.uniprot.org/citations/22353712), PubMed: [24095058](http://www.uniprot.org/citations/24095058), PubMed: [9431993](http://www.uniprot.org/citations/9431993), PubMed: [26433229](http://www.uniprot.org/citations/26433229), PubMed: [28236339](http://www.uniprot.org/citations/28236339), PubMed: [34570399](http://www.uniprot.org/citations/34570399), PubMed: [36041817](http://www.uniprot.org/citations/36041817)). Is probably

also able to aminoacylate tRNA(Sec) with serine, to form the misacylated tRNA L- seryl-tRNA(Sec), which will be further converted into selenocysteinyl- tRNA(Sec) (PubMed:9431993, PubMed:26433229, PubMed:28236339, PubMed:34570399). In the nucleus, binds to the VEGFA core promoter and prevents MYC binding and transcriptional activation by MYC (PubMed:24940000). Recruits SIRT2 to the VEGFA promoter, promoting deacetylation of histone H4 at 'Lys-16' (H4K16). Thereby, inhibits the production of VEGFA and sprouting angiogenesis mediated by VEGFA (PubMed:19423848, PubMed:19423847, PubMed:24940000).

Cellular Location

Cytoplasm. Nucleus Note=Predominantly cytoplasmic, but a minor proportion is also found in the nucleus.

Tissue Location

Brain..

SARS Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

SARS Antibody (N-term) Blocking Peptide - Images

SARS Antibody (N-term) Blocking Peptide - Background

Seryl-tRNA synthetase belongs to the class II amino-acyl tRNA family. This enzyme catalyzes the transfer of L-serine to tRNA (Ser) and is related to bacterial and yeast counterparts.

SARS Antibody (N-term) Blocking Peptide - References

Shimada,N., J. Biol. Chem. 276 (50), 46770-46778 (2001)Shah,Z.H., Hum. Mutat. 17 (5), 433-434 (2001)Heckl,M., FEBS Lett. 427 (3), 315-319 (1998)