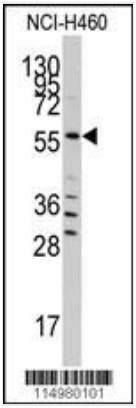
SARS Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SARS, Polyclonal Antibody
Full Product Name	SARS, CT (Seryl-tRNA Synthetase, Cytoplasmic, Seryl-tRNA(Ser/Sec) Synthetase, Serine-tRNA Ligase, SerRS, SERS) (PE)
Product Gene Name	anti-SARS antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with R-Phycoerythrin (PE).
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human SARS.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: PE conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	61.2kDa (537aa)
OMIM	607529
3D Structure	ModBase 3D Structure for P49591
Immunogen	Synthetic peptide selected from the C-terminal region of human SARS (KLH).
Conjugate	PE
Note	Preservative Free
Product Categories/Family for anti-SARS antibody	Antibodies; Infectious Disease SARS
Applications Tested/Suitable for anti-SARS antibody	Immunohistochemistry (IHC), ELISA (EIA), Western Blot (WB)
Application Notes for anti-SARS antibody	IHC: 1:10-1:50 ELISA: 1:1,000 WB: 1:50-1:100 Applications are based on unconjugated antibody.
Related Product Information for anti-SARS antibody	MBS6499076 is an antibody targeting SARS. Also known as SARS, CT (Seryl-tRNA Synthetase, Cytoplasmic, Seryl-tRNA(Ser/Sec) Synthetase, Serine-tRNA Ligase, SerRS, SERS) (PE). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-SARS antibody	1. Shimada, N., J. Biol. Chem. 276(50), 46770-46778 (2001). 2. Shah, Z.H., Hum. Mutat. 17(5), 433-434 (2001). 3. Heckl, M., FEBS Lett. 427(3), 315-319 (1998).
Other Notes	Small volumes of anti-SARS antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-SARS antibody
Western blot analysis of anti-SARS Antibody (C-term) in NCI-H460 cell line lysates (35ug/lane). SARS (arrow) was detected using the purified Pab.



Immunohistochemistry (IHC) of anti-SARS antibody
Formalin-fixed and paraffin-embedded human brain tissue reacted with SARS antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SARS. It may not necessarily be applicable to this product.

NCBI GI #	16306548
NCBI GeneID	6301
NCBI Accession #	NP_006504
UniProt Primary Accession #	P49591
UniProt Secondary Accession #	Q5T5C8; Q9NSE3; B2R6Y9
UniProt Related Accession #	P49591
GenBank Nucleotide #	NM_006513.3
NCBI Official Full Name	serine--tRNA ligase, cytoplasmic isoform a
NCBI Official Synonym Full Names	seryl-tRNA synthetase
NCBI Official Symbol	SARS
NCBI Official Synonym Symbols	SERS; SERRS; NEDMAS
UniProt Protein Name	Serine--tRNA ligase, cytoplasmic
UniProt Synonym Protein Names	Seryl-tRNA synthetase; SerRS; Seryl-tRNA(Ser/Sec) synthetase
Protein Family	HTH-type transcriptional regulator
UniProt Gene Name	SARS
UniProt Synonym Gene Names	SERS; SerRS
UniProt Entry Name	SYSC_HUMAN
NCBI Protein Information	serine--tRNA ligase, cytoplasmic
NCBI Summary for SARS	This gene belongs to the class II amino-acyl tRNA family. The encoded enzyme catalyzes the transfer of L-serine to tRNA (Ser) and is related to bacterial and yeast counterparts. Multiple alternatively spliced transcript variants have been described but the biological validity of all variants is unknown. [provided by RefSeq, Jul 2010]

UniProt Comments for SARS	SARS: Catalyzes the attachment of serine to tRNA(Ser). Is also probably 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). Belongs to the class-II aminoacyl-tRNA synthetase family. Type-1 seryl-tRNA synthetase subfamily. Protein type: RNA processing; Translation; Ligase; EC 6.1.1.11 Chromosomal Location of Human Ortholog: 1p13.3 Cellular Component: mitochondrion; cytoplasm; cytosol Molecular Function: RNA binding; serine-tRNA ligase activity; ATP binding Biological Process: seryl-tRNA aminoacylation; tRNA aminoacylation for protein translation; translation; tRNA processing; gene expression
Research Articles on SARS	**1.** Analyzed the ability of cytosolic SerRS to bind and act on tRNA(Ser), tRNA(Sec), and 10 mutant and chimeric constructs in which elements of tRNA(Ser) were transposed onto tRNA(Sec). We show that SerRS only subtly prefers tRNA(Ser) to tRNA(Sec), and that discrimination occurs at the level of the serylation reaction.
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