

**SARS Antibody (C-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP7834B**

**Specification**

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**SARS Antibody (C-term) - Product Information**

Application	<b>WB, IHC-P,E</b>
Primary Accession	<a href="#">P49591</a>
Other Accession	<a href="#">Q6P799</a> , <a href="#">P26638</a> , <a href="#">Q4R4U9</a> , <a href="#">P26636</a> , <a href="#">Q9GMB8</a> , <a href="#">P13642</a>
Reactivity	<b>Human</b>
Predicted	<b>Bovine, Hamster, Monkey, Mouse, Rabbit, Rat</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Isotype	<b>Rabbit IgG</b>
Calculated MW	<b>58777</b>
Antigen Region	<b>394-422</b>

**SARS Antibody (C-term) - Additional Information**

**Gene ID** 6301

**Other Names**

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

**Target/Specificity**

This SARS antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 394-422 amino acids from the C-terminal region of human SARS.

**Dilution**

WB~~1:1000  
IHC-P~~1:10~50

**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 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**SARS Antibody (C-term) - Protein Information**

**Name** 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](#), PubMed:[24095058](#), PubMed:[9431993](#), PubMed:[26433229](#), PubMed:[28236339](#), PubMed:[34570399](#), PubMed:[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**

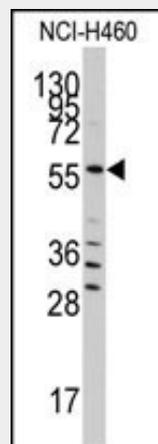
Brain..

**SARS Antibody (C-term) - Protocols**

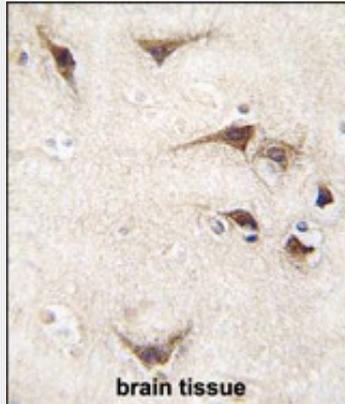
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**SARS Antibody (C-term) - Images**



Western blot analysis of anti-SARS Antibody (C-term) (Cat.#AP7834b) in NCI-H460 cell line lysates (35ug/lane). SARS(arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human brain tissue reacted with SARS antibody (C-term) (Cat.#AP7834b), 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.

#### **SARS Antibody (C-term) - 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 (C-term) - 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)