

# SARS Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP7834B

#### **Specification**

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

Application IHC-P, WB,E Primary Accession P49591

Other Accession <u>Q6P799</u>, <u>P26638</u>, <u>Q4R4U9</u>, <u>P26636</u>, <u>Q9GMB8</u>,

P13642

Reactivity Human

Predicted Bovine, Hamster, Monkey, Mouse, Rabbit,

Rat

Host Rabbit
Clonality Polyclonal
Isotype Rabbit IgG
Calculated MW 58777
Antigen Region 394-422

#### 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**

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

E~~Use at an assay dependent concentration.

#### **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:26433229, PubMed:28236339, PubMed:34570399, PubMed:36041817, PubMed:9431993). 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:26433229, PubMed:28236339, PubMed:34570399, PubMed:9431993). 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:19423847, PubMed:19423848, PubMed:24940000).

#### **Cellular Location**

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

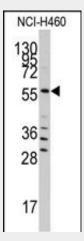
Tissue Location
Brain..

#### 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
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

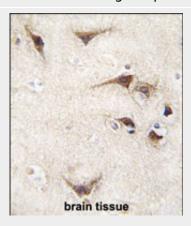
# SARS Antibody (C-term) - Images



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)