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

Specification

SARS Antibody (C-term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	P49591
Other Accession	Q6P799, P26638, Q4R4U9, P26636, Q9GMB8, 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
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.

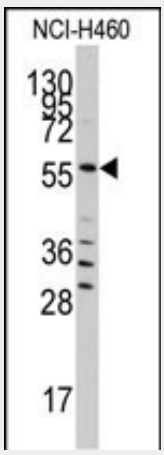
Tissue Location
Brain..

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 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.

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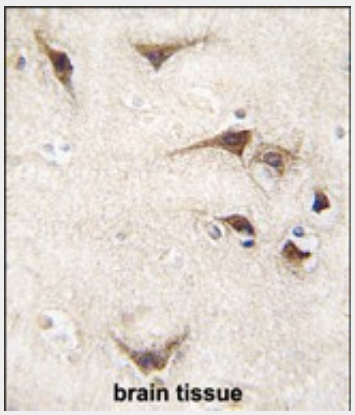

Formalin-fixed and paraffin-embedded human brain tissue reacted with SARS antibody (C-term) (Cat.#AP7834b), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

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)