

SARS Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP7834B

Product Information

Application	WB, IHC-P, E
Primary Accession	P49591
Other Accession	Q6P799 , P26638 , Q4R4U9 , P26636 , Q9GMB8
Reactivity	Human
Predicted	Bovine, Hamster, Monkey, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB14980
Calculated MW	58777
Antigen Region	394-422

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~~1:100~500 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.

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..

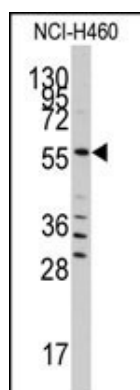
Background

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.

References

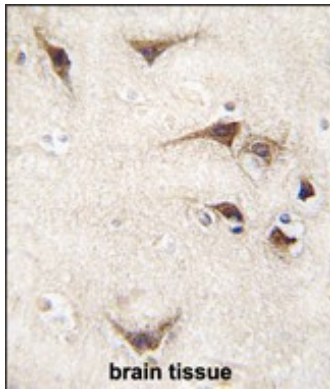
Shimada,N., J. Biol. Chem. 276 (50), 46770-46778 (2001)
Shah,Z.H., Hum. Mutat. 17 (5), 433-434 (2001)
Heckl,M., FEBS Lett. 427 (3), 315-319 (1998)

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.



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.