

SARS Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP7834B

Product Information

Application	WB, IHC-P, E
Primary Accession	<u>P49591</u>
Other Accession	<u>Q6P799</u> , <u>P26638</u> , <u>Q4R4U9</u> , <u>P26636</u> , <u>Q9GMB8</u>
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	SerinetRNA 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 (<u>HGNC:10537</u>)
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



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'.