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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, Canine, Rabbit, Chicken
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..

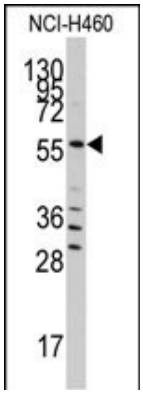
Background

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

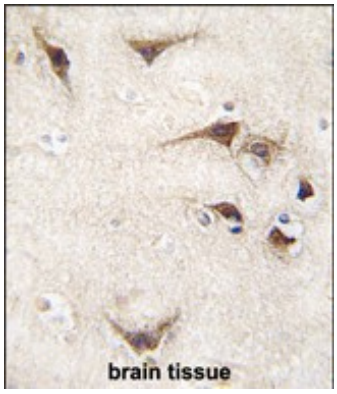
Shimada,N., J. Biol. Chem. 276 (50), 46770-46778 (2001)
Shah,Z.H., Hum. Mutat. 17 (5), 433-434 (2001)
Heckl,M., FEBS Lett. 427 (3), 315-319 (1998)

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.



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