

SARS Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP11092a

Product Information

Application	WB, IHC-P, E
Primary Accession	P49591
Other Accession	NP_006504.2
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB14862
Calculated MW	58777
Antigen Region	140-169

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 140-169 amino acids from the N-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 (N-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..

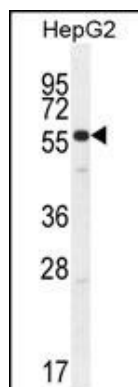
Background

This gene belongs to the class II amino-acyl tRNA family. The encoded enzyme catalyzes the transfer of L-serine to tRNA (Ser) and is related to bacterial and yeast counterparts. Multiple alternatively spliced transcript variants have been described but the biological validity of all variants is unknown. [provided by RefSeq].

References

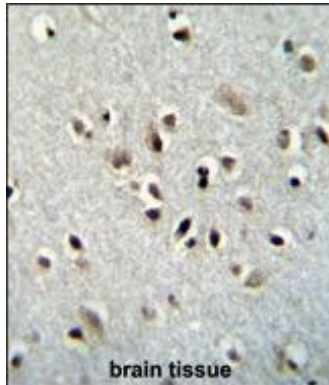
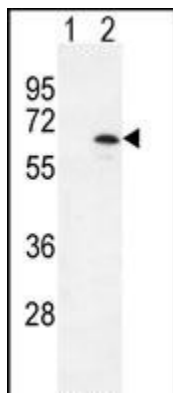
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 Matsuoka, S., et al. Science 316(5828):1160-1166(2007)
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Images



SARS Antibody (N-term) (Cat. #AP11092a) western blot analysis in HepG2 cell line lysates (35ug/lane). This demonstrates the SARS antibody detected the SARS protein (arrow).

Western blot analysis of SARS (arrow) using rabbit polyclonal SARS Antibody (N-term) (Cat. #AP11092a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the SARS gene.



SARS Antibody (N-term) (Cat. #AP11092a) immunohistochemistry analysis in formalin fixed and paraffin embedded human testis tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of SARS Antibody (N-term) 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'.