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SARS2 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7837A

Product Information

Application	IHC-P, WB, E
Primary Accession	Q9NP81
Other Accession	Q9N0F3
Reactivity	Human, Mouse
Predicted	Bovine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB14927
Calculated MW	58283
Antigen Region	160-188

Additional Information

Gene ID	54938
Other Names	Serine--tRNA ligase, mitochondrial, SerRSmt, Seryl-tRNA synthetase, SerRS, Seryl-tRNA(Ser/Sec) synthetase, SARS2, SARSM
Target/Specificity	This SARS2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 160-188 amino acids from the N-terminal region of human SARS2.
Dilution	IHC-P~~1:100~500 WB~~1:1000 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	SARS2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SARS2
Synonyms	SARSM

Function	Catalyzes the attachment of serine to tRNA(Ser). Is also probably 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).
Cellular Location	Mitochondrion matrix {ECO:0000250|UniProtKB:Q9N0F3}

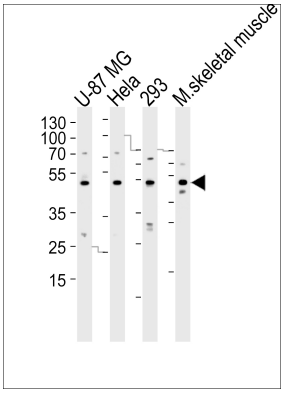
Background

SARS2 catalyzes the attachment of serine to tRNA(Ser). It is 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).

References

Muller,T., Acta Neuropathol. 110 (4), 426-430 (2005)
Gibbons,W.J. Jr., Biochem. Biophys. Res. Commun. 317 (3), 774-778 (2004)
Yokogawa,T., J. Biol. Chem. 275 (26), 19913-19920 (2000)

Images



Western blot analysis of lysates from U-87 MG, Hela, 293 cell line and mouse skeletal muscle tissue lysate(from left to right), using SARS2 Antibody (N-term)(Cat. #AP7837a). AP7837a was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35ug per lane.

Formalin-fixed and paraffin-embedded human brain tissue reacted with SARS2 antibody (N-term) (Cat.#AP7837a), 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.