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NARS2 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7585b

Product Information

Application	WB, IHC-P, E
Primary Accession	Q96I59
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB15140
Calculated MW	54090
Antigen Region	445-474

Additional Information

Gene ID	79731
Other Names	Probable asparagine--tRNA ligase, mitochondrial, Asparaginyl-tRNA synthetase, AsnRS, NARS2
Target/Specificity	This NARS2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 445-474 amino acids from the C-terminal region of human NARS2.
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	NARS2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	NARS2 (HGNC:26274)
Function	Mitochondrial aminoacyl-tRNA synthetase that catalyzes the specific attachment of the asparagine amino acid (aa) to the homologous transfer RNA (tRNA), further participating in protein synthesis (PubMed:25385316).

	The reaction occurs in a two steps: asparagine is first activated by ATP to form Asn-AMP and then transferred to the acceptor end of tRNA(Asn) (Probable).
Cellular Location	Mitochondrion matrix. Mitochondrion

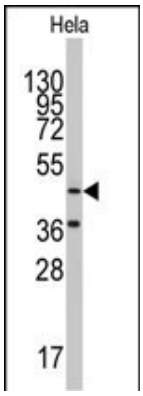
Background

Asparagine-tRNA ligase (EC 6.1.1.22) catalyzes the chemical reaction: ATP + L-asparagine + tRNAAsn AMP + diphosphate + L-asparaginyl-tRNAAsn. This enzyme participates in alanine and aspartate metabolism and aminoacyl-tRNA biosynthesis.

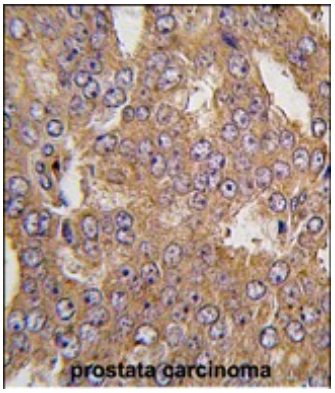
References

Bonnefond,L., Biochemistry 44 (12), 4805-4816 (2005)

Images



Western blot analysis of anti-NARS2 Antibody (C-term) (Cat.#AP7585b) in Hela cell line lysates (35ug/lane).NARS2(arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human prostata carcinoma tissue reacted with NARS2 antibody (C-term) (Cat.#AP7585b), 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'.