

NARS2 Antibody (C-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7585b**Specification**

NARS2 Antibody (C-term) - Product Information

Application	WB, IHC-P,E
Primary Accession	Q96I59
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	54090
Antigen Region	445-474

NARS2 Antibody (C-term) - 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~~1:10~50

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.

NARS2 Antibody (C-term) - 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

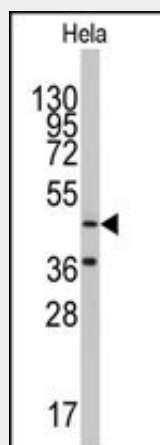
Mitochondrion matrix. Mitochondrion

NARS2 Antibody (C-term) - Protocols

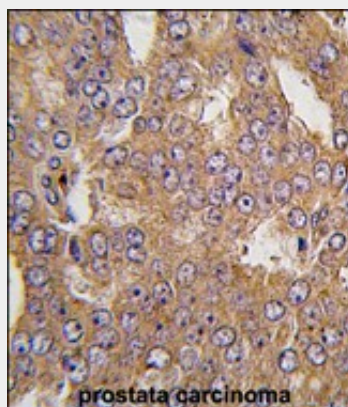
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

NARS2 Antibody (C-term) - 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 prostate 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.

NARS2 Antibody (C-term) - Background

Asparagine-tRNA ligase (EC 6.1.1.22) catalyzes the chemical reaction:

ATP + L-asparagine + tRNAAsn

AMP + diphosphate + L-asparaginyI-tRNAAsn.

This enzyme participates in alanine and aspartate metabolism and aminoacyl-tRNA biosynthesis.

NARS2 Antibody (C-term) - References

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