

NARS2 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP7585b

Specification

NARS2 Antibody (C-term) - Product Information

Application IHC-P, WB,E **Primary Accession** 096159 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

IHC-P~~1:10~50 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

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).

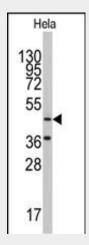
Cellular LocationMitochondrion matrix. Mitochondrion

NARS2 Antibody (C-term) - Protocols

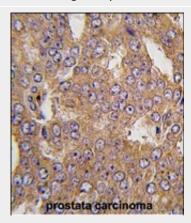
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- 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 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.

NARS2 Antibody (C-term) - 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.

NARS2 Antibody (C-term) - References

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