

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

**Specification**

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**NARS2 Antibody (C-term) - Product Information**

Application	<b>WB, IHC-P,E</b>
Primary Accession	<a href="#">O96159</a>
Reactivity	<b>Human</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Isotype	<b>Rabbit IgG</b>
Calculated MW	<b>54090</b>
Antigen Region	<b>445-474</b>

**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

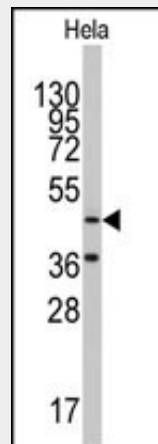
Mitochondrion matrix. Mitochondrion

#### NARS2 Antibody (C-term) - Protocols

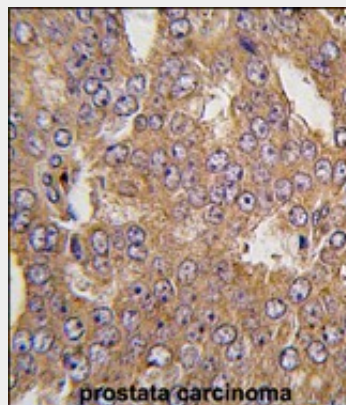
Provided below are standard protocols that you may find useful for product applications.

- [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 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-asparaginylyl-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)