

NARS Monoclonal antibody

Catalog Number: 67711-1-Ig

Basic Information

Catalog Number: 67711-1-Ig	GenBank Accession Number: BC001687	Purification Method: Protein A purification
Size: 1000 µg/ml	GeneID (NCBI): 4677	CloneNo.: 4G5G12
Source: Mouse	UNIPROT ID: O43776	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:2000-1:8000 IF/ICC 1:400-1:1600
Isotype: IgG2a	Full Name: asparaginyl-tRNA synthetase	
Immunogen Catalog Number: AG6656	Calculated MW: 63 kDa Observed MW: 63 kDa	

Applications

Tested Applications:
IF/ICC, IHC, WB, ELISA

Species Specificity:
Human, mouse, rat

Note-IHC: suggested antigen retrieval with **TE buffer pH 9.0; (*)** Alternatively, antigen retrieval may be performed with **citrate buffer pH 6.0**

Positive Controls:

WB: LNCaP cells, HeLa cells, HepG2 cells, Jurkat cells, HSC-T6 cells, NIH/3T3 cells, RAW 264.7 cells

IHC: human urothelial carcinoma tissue,

IF/ICC: HeLa cells,

Background Information

Asparagine-tRNA ligase (NARS) belongs to the class-II aminoacyl-tRNA synthetase family. Catalyzes the attachment of asparagine to tRNA(Asn) in a two-step reaction: asparagine is first activated by ATP to form Asn-AMP and then transferred to the acceptor end of tRNA(Asn) (PubMed: 9421509). In addition to its essential role in protein synthesis, acts as a signaling molecule that induced migration of CCR3-expressing cells. The NARS levels were higher in tumor tissues compared with adjacent normal tissues, and positively associated with LN metastasis. NARS may serve as a potential biomarker for lung adenocarcinoma (ADC) diagnosis/prognosis (PMID: 27161446).

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

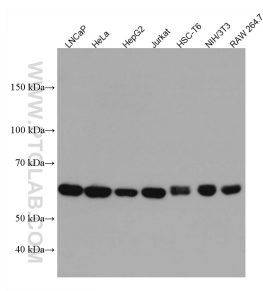
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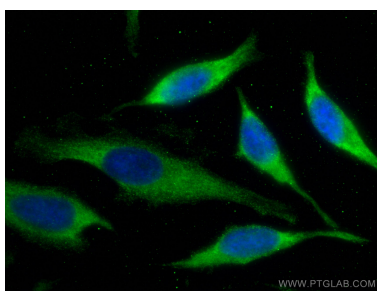
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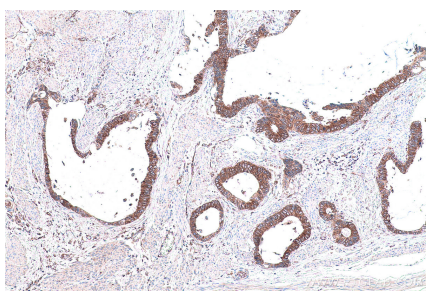
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 67711-1-Ig (NARS antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using NARS antibody (67711-1-Ig, Clone: 4G5G12) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human urothelial carcinoma tissue slide using 67711-1-Ig (NARS antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).