

For Research Use Only

CoraLite® Plus 488-conjugated NARS Monoclonal antibody

Catalog Number: CL488-67711



Basic Information

Catalog Number: CL488-67711	GenBank Accession Number: BC001687	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 4677	CloneNo.: 4G5G12
Source: Mouse	UNIPROT ID: O43776	Recommended Dilutions: IF/ICC 1:50-1:500
Isotype: IgG2a	Full Name: asparaginyl-tRNA synthetase	Excitation/Emission maxima wavelengths: 493 nm / 522 nm
Immunogen Catalog Number: AG6656	Calculated MW: 63 kDa	
	Observed MW: 63 kDa	

Applications

Tested Applications: IF/ICC, FC (Intra)	Positive Controls: IF/ICC : HeLa cells,
Species Specificity: human, mouse, rat	

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).

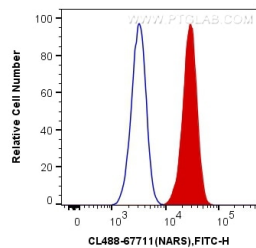
Storage

Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
Aliquoting is unnecessary for -20°C storage

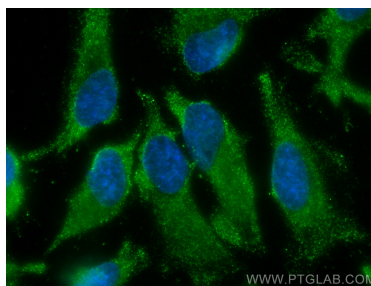
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



1X10⁶ HeLa cells were intracellularly stained with 0.4 ug CoraLite® Plus 488 Anti-Human NARS (CL488-67711, Clone:4G5G12) (red), or 0.4 ug Mouse IgG2a Isotype Control (CL488-66360-2, Clone: K11A1B2A2) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using CoraLite® Plus 488 NARS antibody (CL488-67711, Clone: 4G5G12) at dilution of 1:200.