

CoraLite®594-conjugated NARS

Monoclonal antibody

Catalog Number: **CL594-67711**

Basic Information

Catalog Number:

CL594-67711

Size:

1000 µg/ml

Source:

Mouse

Isotype:

IgG2a

Immunogen Catalog Number:

AG6656

GenBank Accession Number:

BC001687

GeneID (NCBI):

4677

UNIPROT ID:

O43776

Full Name:

asparaginyl-tRNA synthetase

Calculated MW:

63 kDa

Observed MW:

63 kDa

Purification Method:

Protein A purification

CloneNo.:

4G5G12

Recommended Dilutions:

IF/ICC 1:50-1:500

Excitation/Emission maxima wavelengths:

588 nm / 604 nm

Applications

Tested Applications:

IF/ICC, FC (Intra)

Species Specificity:

human, mouse, rat

Positive Controls:

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:

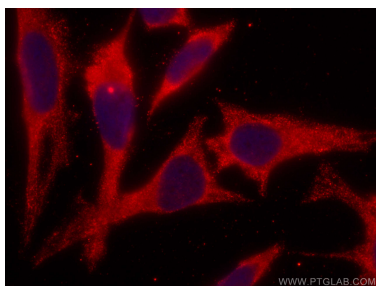
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

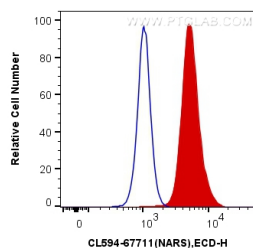
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

Selected Validation Data



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using CoraLite®594 NARS antibody (CL594-67711, Clone: 4G5G12) at dilution of 1:200.



1X10⁶ HeLa cells were intracellularly stained with 0.4 ug CoraLite®594 Anti-Human NARS (CL594-67711, Clone:4G5G12) (red), or 0.4 ug Mouse IgG2a Isotype Control (CL594-66360-2, Clone: K11A1B2A2) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).