

For Research Use Only

CoraLite® Plus 488-conjugated TrpRS Monoclonal antibody



Catalog Number:CL488-67952

Basic Information

Catalog Number: CL488-67952	GenBank Accession Number: BC017489	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 7453	CloneNo.: 1C6C3
Source: Mouse	Full Name: tryptophanyl-tRNA synthetase	Recommended Dilutions: IF 1:50-1:500
Isotype: IgG2b	Calculated MW: 471 aa, 53 kDa	Excitation/Emission maxima wavelengths: 488 nm / 515 nm
Immunogen Catalog Number: AG31430	Observed MW: 53 kDa	

Applications

Tested Applications: FC (Intra), IF	Positive Controls: IF : MCF-7 cells,
Species Specificity: Human, rat, mouse	

Background Information

Tryptophanyl-tRNA synthetase (WRS) is a cytosolic amino acyl-tRNA synthetase essential for protein synthesis. Full-length WRS is released during bacterial infection and primes the Toll-like receptor 4 (TLR4)-myeloid differentiation factor 2 (MD2) complex to elicit innate immune responses. Inside the nucleus, WRS stimulates DNA-dependent protein kinase, catalytic subunit (DNA-PKcs), activity via its WHEP domain, leading to the phosphorylation and activation of p53 (39) (PMID:30355684).

Storage

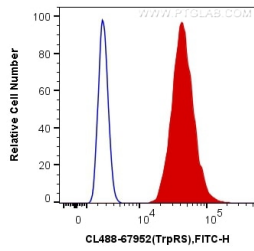
Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

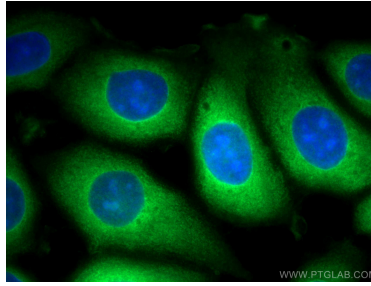
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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 TrpRS (CL488-67952, Clone:1C6C3) (red), or 0.4 ug Mouse IgG2b Isotype Control (CL488-66360-3, Clone: K11B8C4B5) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunofluorescent analysis of (-20°C Methanol) fixed MCF-7 cells using CoraLite® Plus 488 TrpRS antibody (CL488-67952, Clone: 1C6C3) at dilution of 1:200.