

For Research Use Only

# CoraLite® Plus 488-conjugated TrpRS Monoclonal antibody

Catalog Number:CL488-67952



## Basic Information

Catalog Number:

CL488-67952

Size:

100ul , Concentration: 1000 ug/ml by  
Nanodrop;

Source:

Mouse

Isotype:

IgG2b

Immunogen Catalog Number:

AG31430

GenBank Accession Number:

BC017489

GeneID (NCBI):

7453

UNIPROT ID:

P23381

Full Name:

tryptophanyl-tRNA synthetase

Calculated MW:

471 aa, 53 kDa

Observed MW:

53 kDa

Purification Method:

Protein A purification

CloneNo.:

1C6C3

Recommended Dilutions:

IF/ICC 1:50-1:500

Excitation/Emission maxima

wavelengths:

493 nm / 522 nm

## Applications

Tested Applications:

IF/ICC, FC (Intra)

Species Specificity:

Human, rat, mouse

Positive Controls:

IF/ICC : MCF-7 cells,

## 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:3035684).

## 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

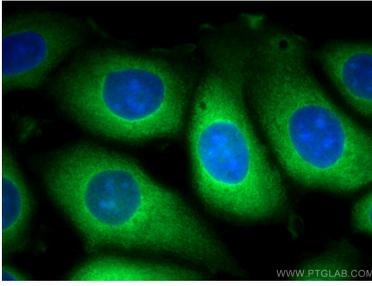
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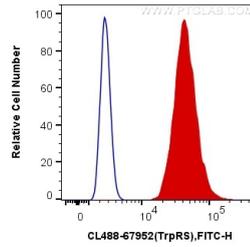
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## Selected Validation Data



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.



1X10<sup>6</sup> 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).