

CoraLite® Plus 647-conjugated EPRS

Monoclonal antibody

Catalog Number: **CL647-67712**

Basic Information

Catalog Number:

CL647-67712

Size:

1000 µg/ml

Source:

Mouse

Isotype:

IgG2a

Immunogen Catalog Number:

AG19184

GenBank Accession Number:

BC126275

GeneID (NCBI):

2058

UNIPROT ID:

P07814

Full Name:

glutamyl-prolyl-tRNA synthetase

Calculated MW:

1512 aa, 171 kDa

Purification Method:

Protein A purification

CloneNo.:

1B7G2

Recommended Dilutions:

IF/ICC 1:50-1:500

Excitation/Emission maxima wavelengths:

654 nm / 674 nm

Applications

Tested Applications:

IF/ICC

Species Specificity:

Human, rat, mouse

Positive Controls:

IF/ICC : HeLa cells,

Background Information

Human EPRS is a 172 kDa, 1512 amino acid polypeptide consisting of three major domains. The N and C termini contain ERS and PRS catalytic domains, respectively, joined by a 300 amino acid linker containing three tandem WHEP-TRS (referred to as WHEP) domains. EPRS is a bifunctional aminoacyl-tRNA synthetase that catalyzes the aminoacylation of glutamic acid and proline tRNA species. EPRS has a special role in GAIT-mediated translational control, as it is solely responsible for recognition and interaction with GAIT elements in target mRNAs. (PMID: 29576217, PMID: 22386318, PMID: 19647514)

Storage

Storage:

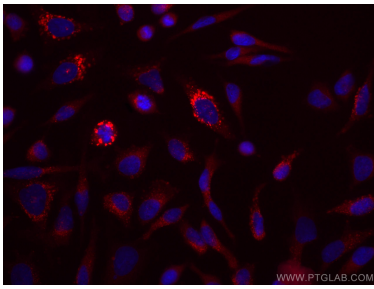
Store at -20°C. Avoid exposure to light.

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 Methanol) fixed HeLa cells using Coralite® Plus 647 EPRS antibody (CL647-67712, Clone: 1B7G2) at dilution of 1:200.