

For Research Use Only

CoraLite® Plus 647-conjugated EPRS Monoclonal antibody

Catalog Number: CL647-67712



Basic Information

Catalog Number: CL647-67712	GenBank Accession Number: BC126275	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 2058	CloneNo.: 1B7G2
Source: Mouse	UNIPROT ID: P07814	Recommended Dilutions: IF/ICC 1:50-1:500
Isotype: IgG2a	Full Name: glutamyl-prolyl-tRNA synthetase	Excitation/Emission maxima wavelengths: 654 nm / 674 nm
Immunogen Catalog Number: AG19184	Calculated MW: 1512 aa, 171 kDa	

Applications

Tested Applications: IF/ICC	Positive Controls: IF/ICC : HeLa cells,
Species Specificity: Human, rat, mouse	

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)

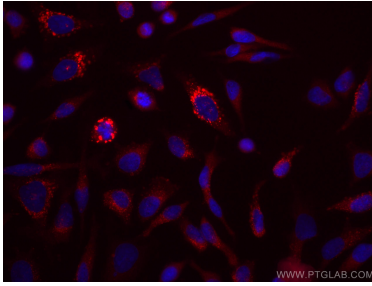
Storage

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



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using Coralite® Plus 647 EPRS antibody (CL647-67712, Clone: 1B7G2) at dilution of 1:200.