

For Research Use Only

EPRS Polyclonal antibody

Catalog Number: 25307-1-AP

2 Publications



Basic Information

Catalog Number:

25307-1-AP

Concentration:

500 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG18011

GenBank Accession Number:

BC126275

GeneID (NCBI):

2058

UNIPROT ID:

P07814

Full Name:

glutamyl-prolyl-tRNA synthetase

Calculated MW:

1512 aa, 171 kDa

Observed MW:

171 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:5000-1:50000

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IF/ICC, ELISA

Cited Applications:

WB

Species Specificity:

human

Cited Species:

human

Positive Controls:

WB : HEK-293 cells, Jurkat cells, HeLa cells

IF/ICC : HEK-293 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)

Notable Publications

Author	Pubmed ID	Journal	Application
Jing Zhang	28590090	Proteomics	WB
Mirjana Malnar Črnigoi	37717009	Nat Commun	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

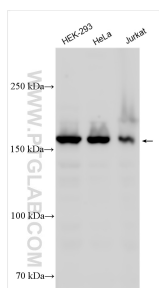
T: 4006900926

E: Proteintech-CN@ptglab.com

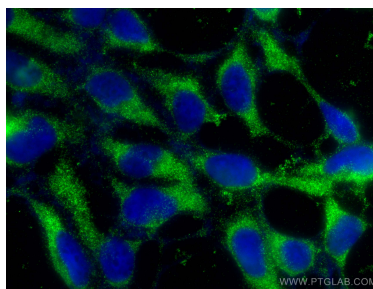
W: ptgcn.com

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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 25307-1-AP (EPRS antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed HEK-293 cells using EPRS antibody (25307-1-AP) at dilution of 1:400 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).