

For Research Use Only

EPRS Polyclonal antibody

Catalog Number: 25307-1-AP **2 Publications**



Basic Information

Catalog Number: 25307-1-AP	GenBank Accession Number: BC126275	Purification Method: Antigen affinity purification
Size: 500 µg/ml	GeneID (NCBI): 2058	Recommended Dilutions: WB 1:5000-1:50000 IF 1:20-1:200
Source: Rabbit	UNIPROT ID: P07814	
Isotype: IgG	Full Name: glutamyl-prolyl-tRNA synthetase	
Immunogen Catalog Number: AG18011	Calculated MW: 1512 aa, 171 kDa	
	Observed MW: 171 kDa	

Applications

Tested Applications: IF/ICC, WB, ELISA	Positive Controls: WB : HEK-293 cells, Jurkat cells, HeLa cells IF : HEK-293 cells,
Cited Applications: WB	
Species Specificity: human	
Cited Species: human	

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 Črnigoj	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:

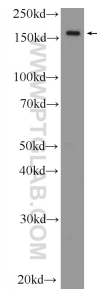
T: 4006900926

E: Proteintech-CN@ptglab.com

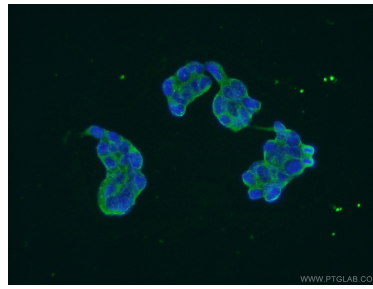
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Selected Validation Data



HEK-293 cells were subjected to SDS PAGE followed by western blot with 25307-1-AP (EPRS Antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of HEK-293 cells using 25307-1-AP (EPRS antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).