

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: 150ul , Concentration: 500 ug/ml by Nanodrop;	GeneID (NCBI): 2058	Recommended Dilutions: WB 1:5000-1:50000 IF/ICC 1:200-1:800
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: WB, IF/ICC, ELISA	Positive Controls: WB : HEK-293 cells, Jurkat cells, HeLa cells IF/ICC : 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

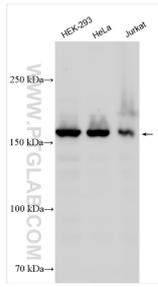
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

***** 20ul sizes contain 0.1% BSA**

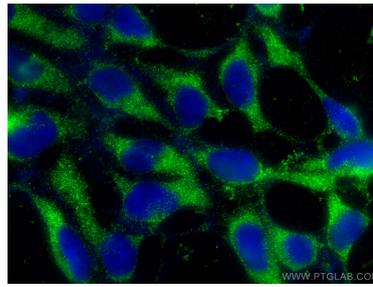
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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Selected Validation Data



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).