

For Research Use Only

EPRS Monoclonal antibody

Catalog Number: 67712-1-Ig **1 Publications**



Basic Information

Catalog Number: 67712-1-Ig	GenBank Accession Number: BC126275	Purification Method: Protein A purification
Size: 150ul , Concentration: 500 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 2058	CloneNo.: 1B7G2
Source: Mouse	UNIPROT ID: P07814	Recommended Dilutions: WB 1:5000-1:50000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:500-1:2000 IF/ICC 1:50-1:500
Isotype: IgG2a	Full Name: glutamyl-prolyl-tRNA synthetase	
Immunogen Catalog Number: AG19184	Calculated MW: 1512 aa, 171 kDa	
	Observed MW: 171 kDa	

Applications

Tested Applications:
WB, IHC, IF/ICC, IP, ELISA

Cited Applications:
WB, IHC, IF

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HT-29 cells, HSC-T6 cells, NIH/3T3 cells, PC-12 cells, HeLa cells, HEK-293 cells, HepG2 cells, LNCaP cells, Jurkat cells

IP : HeLa cells,

IHC : human lung cancer tissue,

IF/ICC : HeLa cells, BV-2 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
Li-Qi Lin	38243370	Kaohsiung J Med Sci	WB,IF,IHC

Storage

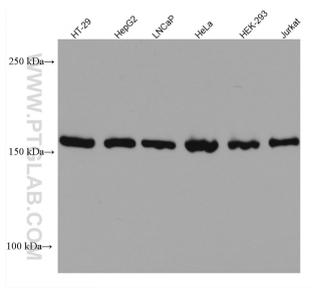
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

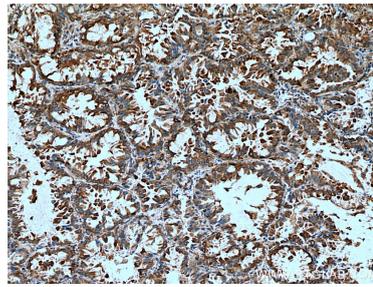
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

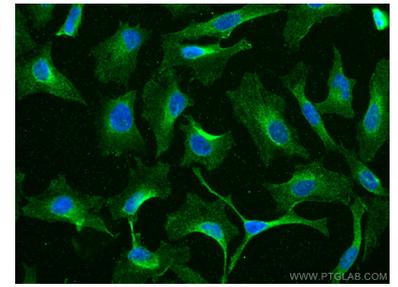
Selected Validation Data



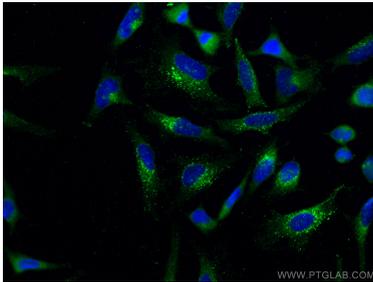
Various lysates were subjected to SDS PAGE followed by western blot with 67712-1-Ig (EPRS antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



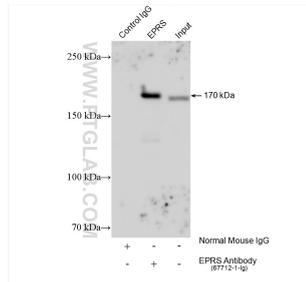
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 67712-1-Ig (EPRS antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



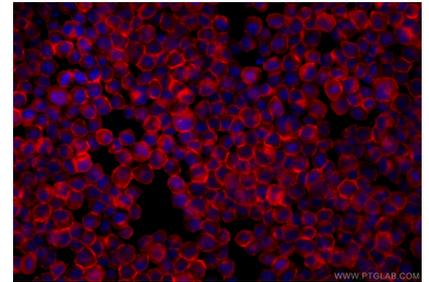
Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using EPRS antibody (67712-1-Ig, Clone: 1B7G2) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using EPRS antibody (67712-1-Ig, Clone: 1B7G2) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). DAPI (blue).



IP result of anti-EPRS (IP:67712-1-Ig, 4ug; Detection:67712-1-Ig 1:10000) with HeLa cells lysate 1085 ug.



Immunofluorescent analysis of (4% PFA) fixed BV-2 cells using EPRS antibody (67712-1-Ig, Clone: 1B7G2) at dilution of 1:800 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1).