

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: 500 µg/ml	GeneID (NCBI): 2058	CloneNo.: 1B7G2
Source: Mouse	UNIPROT ID: P07814	Recommended Dilutions: WB 1:5000-1:50000 IP 0.5-4.0 µg 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, IP, IF/ICC, IHC, ELISA	Positive Controls:
Cited Applications: WB, IF, IHC	WB : HT-29 cells, HSC-T6 cells, NIH/3T3 cells, PC-12 cells, HeLa cells, HEK-293 cells, HepG2 cells, LNCaP cells, Jurkat cells
Species Specificity: Human, rat, mouse	IP : HeLa cells,
Cited Species: human, mouse	IHC : human lung cancer tissue,
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IF/ICC : HeLa 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)

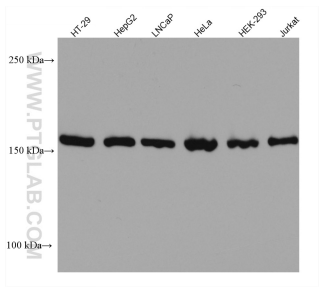
Notable Publications

Author	Pubmed ID	Journal	Application
Li-Qi Lin	38243370	Kaohsiung J Med Sci	WB,IF,IHC

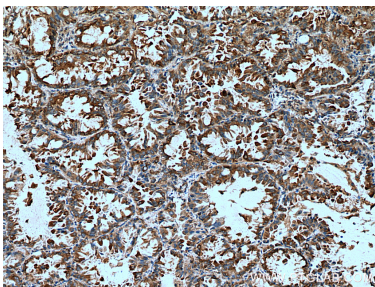
Storage

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

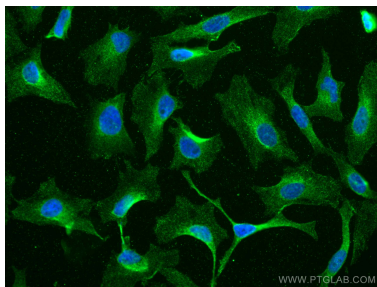
Selected Validation Data



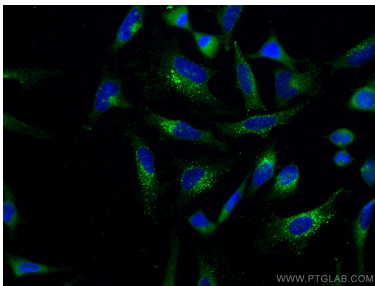
Various lysates were subjected to SDS PAGE followed by western blot with 67712-1-Ig (EPRS antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



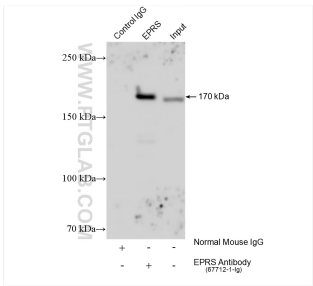
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 67712-1-Ig (EPRS antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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.