For Research Use Only

EIF5A1/EIF5A2 Polyclonal antibody

Catalog Number:17069-1-AP Featured Product 15 Publications

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:
17069-1-AP

Size:
400 ug/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG10895

GenBank Accession Number:
BC036072

GeneID (NCBI):
56648

UNIPROT ID:
Q9GZV4

Full Name:
eukaryotic translation initiation factor 5A2

Calculated MW:
153 aa, 17 kDa

Observed MW:
17 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:1000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:50-1:500

Applications

Tested Applications:
WB, IHC, IP, ELISA

Cited Applications:
WB, IHC, IF, IP, RIP

Species Specificity:
human, mouse

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 : mouse brain tissue, A2780 cells, mouse testis tissue

IP : mouse brain tissue,

IHC : human prostate cancer tissue, human colon cancer tissue, human stomach cancer tissue, mouse brain tissue

Background Information

Eukaryotic initiation factor 5A (EIF5A) plays an essential role in the viability of eukaryotic cells. EIF5A is known to act as a translation initiation factor specific for a small number of mRNAs, a cellular target of HIV-1 REV protein, and an exportin-4-dependent nuclear export cargo. It is also involved in mRNA turnover and the establishment of actin polarity. [PMID:16157662]. EIF5A2, one isoform of EIF5A, has a key at the level of mRNA turnoverby acting downstream of decapping. It also involved in actin dynamics and cell cycle progression, mRNA decay and probably in a pathway involved in stress response and maintenance of cell wall integrity [PMID:14622290]. EIF5A2 shares 84% identity of amino acid sequence with EIF5A1 isoform, so EIF5A2 poly-antibody could recognize both EIF5A2 and EIF5A1.

Notable Publications

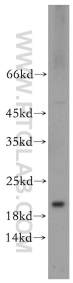
Author	Pubmed ID	Journal	Application
Guodong Xu	25380840	BMC Pulm Med	WB
Dorian Farache	35358571	J Mol Biol	WB
Yu Liu	24638963	Breast Cancer	WB

Storage

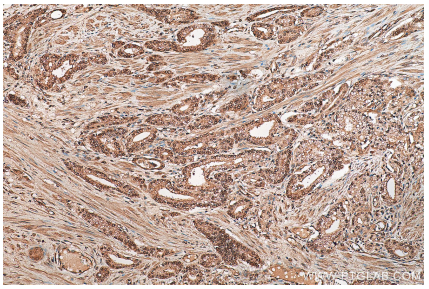
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

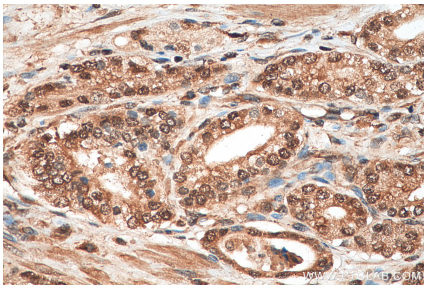
Selected Validation Data



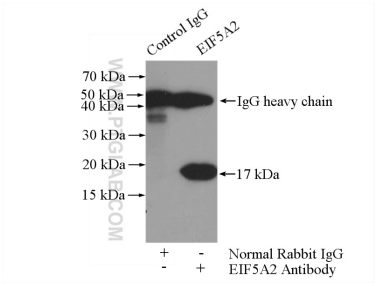
mouse brain tissue were subjected to SDS PAGE followed by western blot with 17069-1-AP (EIF5A2 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



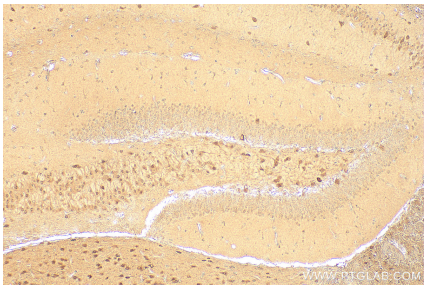
Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 17069-1-AP (EIF5A1/EIF5A2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 17069-1-AP (EIF5A1/EIF5A2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-EIF5A1/EIF5A2 (IP:17069-1-AP, 3ug; Detection:17069-1-AP 1:500) with mouse brain tissue lysate 4000ug.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 17069-1-AP (EIF5A1/EIF5A2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).