

For Research Use Only

# EIF5A1/EIF5A2 Polyclonal antibody

Catalog Number: 17069-1-AP

Featured Product

15 Publications



## Basic Information

**Catalog Number:**

17069-1-AP

**Size:**

150ul, Concentration: 400 ug/ml by Nanodrop and 333 ug/ml by Bradford method using BSA as the standard;

**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

**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

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

## 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 turnover by 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

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

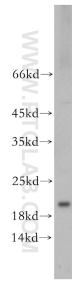
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

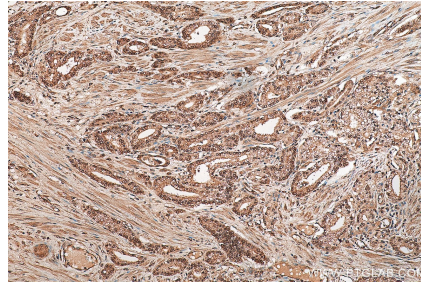
E: proteintech@ptglab.com  
W: ptglab.com

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

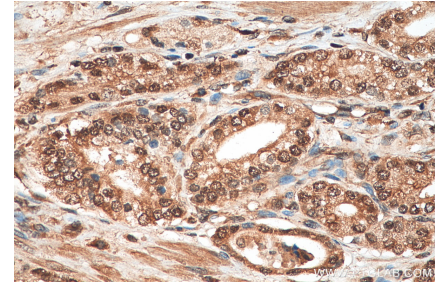
## Selected Validation Data



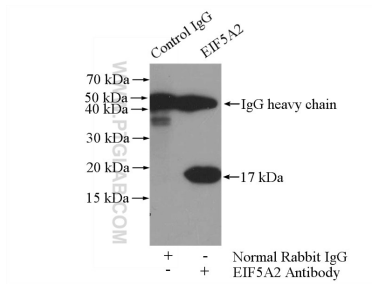
mouse brain tissue were subjected to SDS PAGE followed by western blot with 17069-1-AP (EIF5A2 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



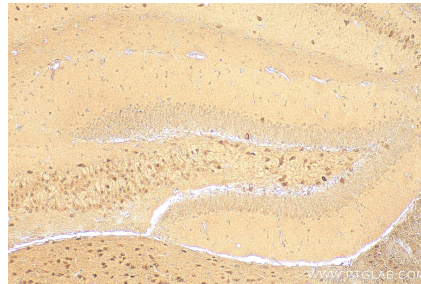
Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 17069-1-AP (EIF5A1/EIF5A2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).