

For Research Use Only

# EIF4A3 Polyclonal antibody

Catalog Number: 17504-1-AP

Featured Product

40 Publications



## Basic Information

### Catalog Number:

17504-1-AP

### Size:

150ul, Concentration: 400 µg/ml by Nanodrop and 347 µg/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG11701

### GenBank Accession Number:

BC003662

### GeneID (NCBI):

9775

### UNIPROT ID:

P38919

### Full Name:

eukaryotic translation initiation factor 4A, isoform 3

### Calculated MW:

47 kDa

### Observed MW:

47 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:4000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:20-1:200

IF 1:10-1:100

## Applications

### Tested Applications:

IF, IHC, IP, WB, ELISA

### Cited Applications:

WB, RIP, IP, IHC, IF, CoIP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, rat, 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:** A549 cells, mouse thymus tissue, mouse heart tissue, mouse lung tissue, HEK-293 cells, mouse liver tissue, HeLa cells, MCF-7 cells, HepG2 cells

**IP:** mouse heart tissue,

**IHC:** human kidney tissue, human brain tissue, human heart tissue, human lung tissue, human ovary tissue, human spleen tissue, human testis tissue

**IF:** MCF-7 cells,

## Background Information

EIF4A3 is a component of the exon junction complex (EJC), which assembles near exon-exon junctions of mRNAs as a result of splicing. EJC proteins involves in postslicing events, including mRNA export, cytoplasmic localization, and nonsense-mediated decay. Its RNA-dependent ATPase and RNA-helicase activities are induced by CASC3, but abolished in presence of the MAGOH/RBM8A heterodimer, thereby trapping the ATP-bound EJC core onto spliced mRNA in a stable conformation. Besides, it involved in translational enhancement of spliced mRNAs after formation of the 80S ribosome complex and binds spliced mRNA in sequence-independent manner, 20-24 nucleotides upstream of mRNA exon-exon junctions

## Notable Publications

Author	Pubmed ID	Journal	Application
Jinguo Xia	36225644	Am J Cancer Res	RIP
S Prpar Mihevc	27665936	Sci Rep	WB,IF
Qingxia Gao	36314820	J Virol	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

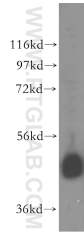
For technical support and original validation data for this product please contact:

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

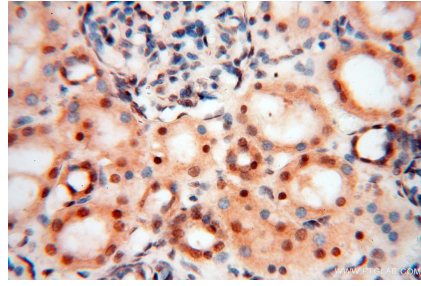
E: proteintech@ptglab.com  
W: ptglab.com

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

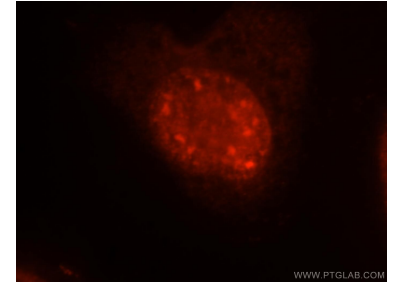
## Selected Validation Data



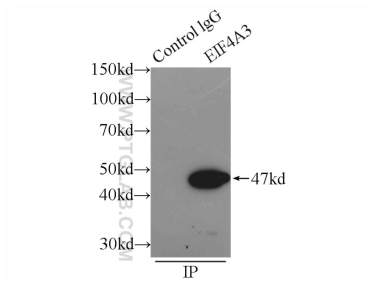
A549 cells were subjected to SDS PAGE followed by western blot with 17504-1-AP (EIF4A3 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



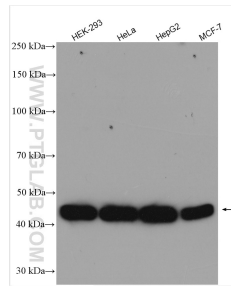
Immunohistochemical analysis of paraffin-embedded human kidney using 17504-1-AP (EIF4A3 antibody) at dilution of 1:100 (under 40x lens).



Immunofluorescent analysis of MCF-7 cells, using EIF4A3 antibody 17504-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



IP result of anti-EIF4A3 (IP:17504-1-AP, 3ug; Detection:17504-1-AP 1:1000) with mouse heart tissue lysate 5000ug.



Various lysates were subjected to SDS PAGE followed by western blot with 17504-1-AP (EIF4A3 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.