

For Research Use Only

# EIF4A3 Polyclonal antibody

Catalog Number: 17504-1-AP

Featured Product

55 Publications



## Basic Information

Catalog Number:

17504-1-AP

Concentration:

500 µg/ml

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/ICC 1:10-1:100

## Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IHC, IF, IP, CoIP, RIP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

**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/ICC**: 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 postsplicing 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, pH7.3

Aliquoting is unnecessary for -20°C storage

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

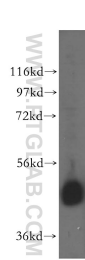
T: 4006900926

E: Proteintech-CN@ptglab.com

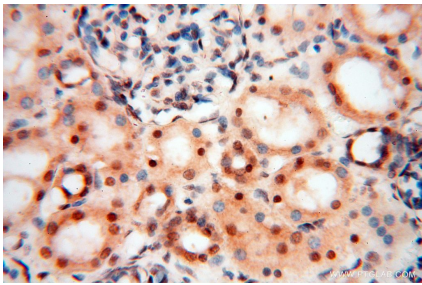
W: ptgcn.com

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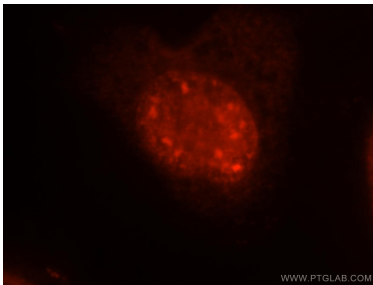
Selected Validation Data



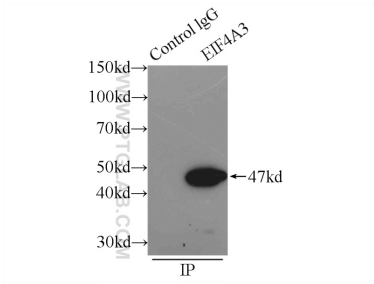
A549 cells were subjected to SDS PAGE followed by western blot with 17504-1-AP (EIF4A3 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



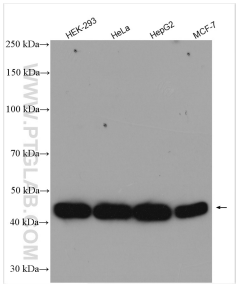
Immunohistochemical analysis of paraffin-embedded human kidney using 17504-1-AP (EIF4A3 antibody) at dilution of 1:100 (under 40x lens).



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.