

EIF4A3 Polyclonal antibody

Catalog Number: 17504-1-AP

Featured Product

55 Publications

Basic Information

Catalog Number:

17504-1-AP

Size:

150ul, Concentration: 400 ug/ml by Nanodrop and 347 ug/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 ug 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

*** 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)

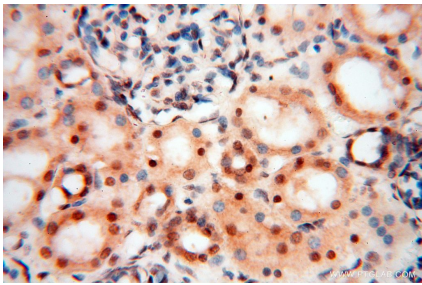
E: proteintech@ptglab.com
W: ptglab.com

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

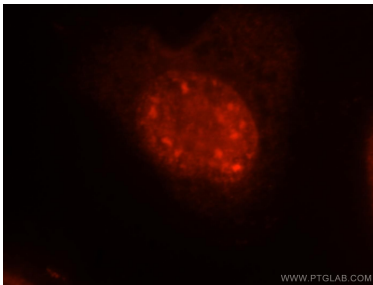
Selected Validation Data



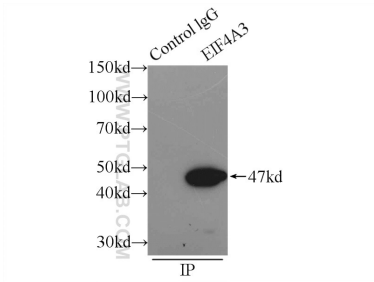
A549 cells were subjected to SDS PAGE followed by western blot with 17504-1-AP (EIF4A3 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



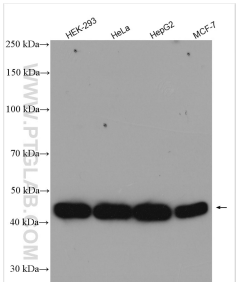
Immunohistochemical analysis of paraffin-embedded human kidney using 17504-1-AP (EIF4A3 antibody) at dilution of 1:100 (under 40x lens).



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.