

For Research Use Only

EIF4A3 Polyclonal antibody

Catalog Number: 10463-1-AP

3 Publications



Basic Information

Catalog Number:

10463-1-AP

Size:

300 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG0733

GenBank Accession Number:

BC004386

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 1:500-1:2000

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

Applications

Tested Applications:

WB, IP, ELISA

Cited Applications:

WB, IP

Species Specificity:

human, mouse

Cited Species:

human

Positive Controls:

WB : HeLa cells, HEK-293 cells, human lung tissue, mouse liver tissue, Raji cells

IP : HEK-293 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
Izumi Natsuko N	20371770	Sci Signal	WB
Xun Zhang	39382613	Cell Biol Toxicol	WB
Yamashita Akio A	19417104	Genes Dev	WB,IP

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:

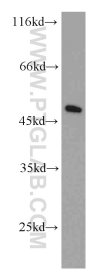
T: 4006900926

E: Proteintech-CN@ptglab.com

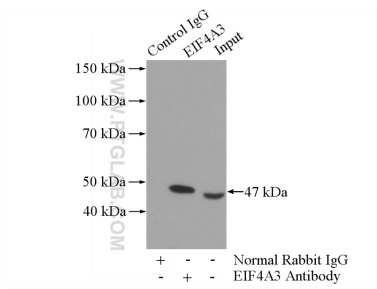
W: ptgcn.com

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

Selected Validation Data



HeLa cells were subjected to SDS PAGE followed by western blot with 10463-1-AP (EIF4A3 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



IP result of anti-EIF4A3 (IP:10463-1-AP, 3ug; Detection:10463-1-AP 1:300) with HEK-293 cells lysate 2800ug.