

For Research Use Only

EIF4A3 Polyclonal antibody

Catalog Number: 10463-1-AP

3 Publications



Basic Information

Catalog Number:

10463-1-AP

Size:

150ul, Concentration: 300 ug/ml by Nanodrop and 133 ug/ml by Bradford method using BSA as the standard;

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 ug 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

*** 20ul sizes contain 0.1% BSA

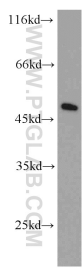
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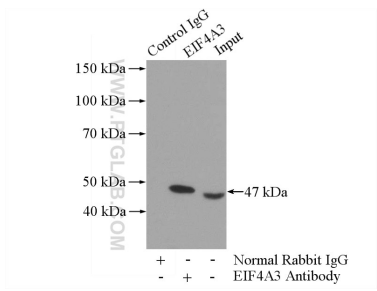
E: proteintech@ptglab.com
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Selected Validation Data



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.