

For Research Use Only

EIF4A3 Monoclonal antibody

Catalog Number: 67740-1-Ig

1 Publications



Basic Information

Catalog Number:	67740-1-Ig	GenBank Accession Number:	BC003662	Purification Method:	Protein A purification
Size:	150ul, Concentration: 500 ug/ml by Nanodrop;	GeneID (NCBI):	9775	CloneNo.:	1G6H9
Source:	Mouse	UNIPROT ID:	P38919	Recommended Dilutions:	WB 1:20000-1:100000 IHC 1:1250-1:5000 IF/ICC 1:400-1:1600
Isotype:	IgG2b	Full Name:	eukaryotic translation initiation factor 4A, isoform 3		
Immunogen Catalog Number:	AG11130	Calculated MW:	47 kDa		
		Observed MW:	47 kDa		

Applications

Tested Applications:	WB, IHC, IF/ICC, ELISA	Positive Controls:	WB : HeLa cells, HEK-293 cells, HepG2 cells, Jurkat cells, K-562 cells, PC-12 cells, NIH/3T3 cells, HSC-T6 cells, 4T1 cells
Cited Applications:	WB	IHC :	human colon cancer tissue, human renal cell carcinoma tissue
Species Specificity:	Human, mouse, rat	IF/ICC :	HepG2 cells,
Cited Species:	human		
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0			

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
Maike Nagel	36316088	RNA	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

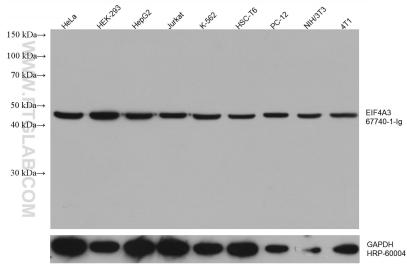
*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
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in USA), or 1(312) 455-8498 (outside USA)

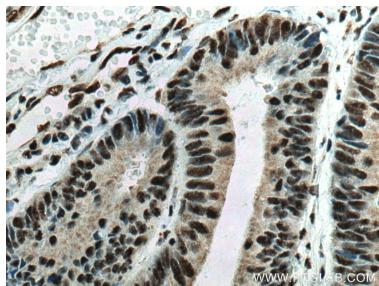
E: proteintech@ptglab.com
W: ptglab.com

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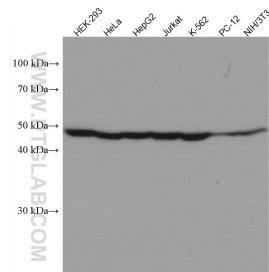
Selected Validation Data



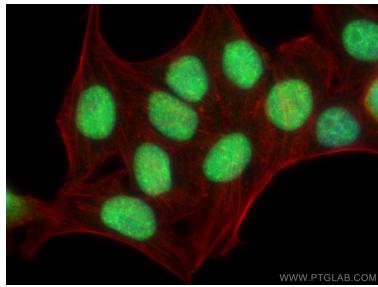
Various lysates were subjected to SDS PAGE followed by western blot with 67740-1-Ig (EIF4A3 antibody) at dilution of 1:50000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 67740-1-Ig (EIF4A3 antibody) at dilution of 1:2500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 67740-1-Ig (EIF4A3 antibody) at dilution of 1:25000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using EIF4A3 antibody (67740-1-Ig, Clone: 1G6H9) at dilution of 1:800 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-phalloidin (red).