

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 µg/ml by Nanodrop;	GeneID (NCBI): 9775	CloneNo.: 1G6H9
Source: Mouse	Full Name: eukaryotic translation initiation factor 4A, isoform 3	Recommended Dilutions: WB 1:20000-1:100000 IHC 1:1250-1:5000
Isotype: IgG2b	Calculated MW: 47 kDa	
Immunogen Catalog Number: AG11130	Observed MW: 47 kDa	

Applications

Tested Applications: IHC, WB, ELISA	Positive Controls:
Cited Applications: WB	WB : HeLa cells, HEK-293 cells, HepG2 cells, Jurkat cells, K-562 cells, PC-12 cells, NIH/3T3 cells, HSC-T6 cells, 4T1 cells
Species Specificity: Human, mouse, rat	IHC : human colon cancer tissue, human renal cell carcinoma tissue
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

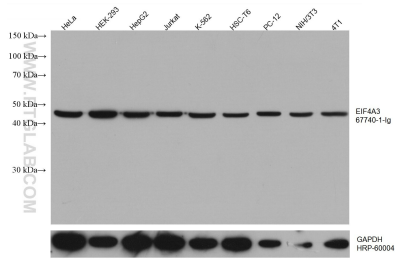
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

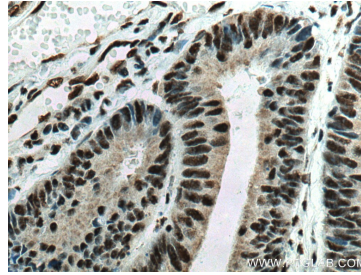
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

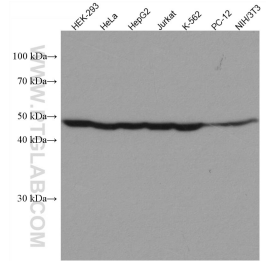
Selected Validation Data



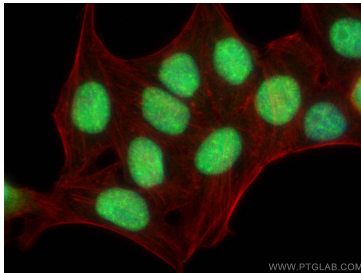
Various lysates were subjected to SDS PAGE followed by western blot with 67740-1-ig (EIF4A3 antibody) at dilution of 1:50000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



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).