

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: 500 µg/ml	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: IF/ICC, 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	IF/ICC : HepG2 cells,
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 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

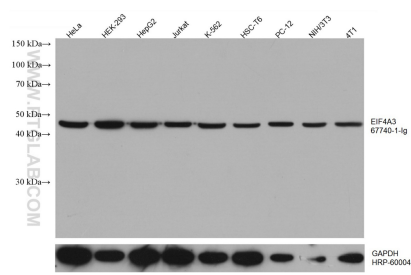
Notable Publications

Author	Pubmed ID	Journal	Application
Maike Nagel	36316088	RNA	WB

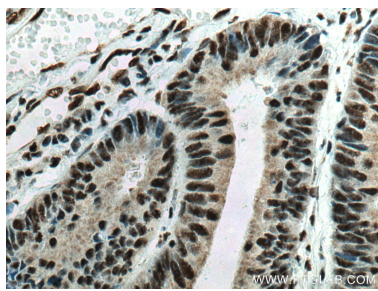
Storage

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

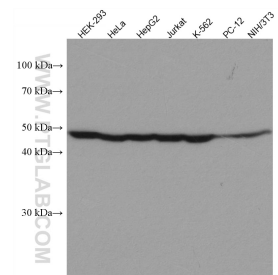
Selected Validation Data



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).