

For Research Use Only

EIF4G1 Monoclonal antibody

Catalog Number: 67199-1-Ig 2 Publications



Basic Information

Catalog Number: 67199-1-Ig	GenBank Accession Number: BC007788	Purification Method: Protein G purification
Size: 150ul, Concentration: 1000 ug/ml by Nanodrop and 500 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 1981	CloneNo.: 2B10G8
Source: Mouse	UNIPROT ID: Q04637	Recommended Dilutions: WB: 1:5000-1:50000 IHC: 1:50-1:500 IF/ICC: 1:200-1:800
Isotype: IgG1	Full Name: eukaryotic translation initiation factor 4 gamma, 1	
Immunogen Catalog Number: AG8357	Calculated MW: 1600 aa, 176 kDa	
	Observed MW: 240-250 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, ELISA	Positive Controls:
Cited Applications: WB, IF	WB : HeLa cells, 4T1 cells, HEK-293 cells, MCF-7 cells, Jurkat cells
Species Specificity: human, mouse, rat	IHC : mouse pancreas 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

Eukaryotic cellular messenger RNAs are posttranscriptionally modified by addition of an m(7)GTP moiety to the 5-prime terminus, referred to as a cap. Recognition of the cap structure and unwinding of mRNA secondary structure during the initiation phase of protein synthesis is catalyzed by initiation factors of the eIF4 group. EIF4G1, a subunit of eIF4 gamma, forms various complexes with the other eIF4 polypeptides [PMID: 7601469]. Mutations in the EIF4G1 gene, encoding a component of the eIF4F translation initiation complex, were recently reported as a possible cause for the autosomal dominant form of Parkinson's disease [PMID:22658323]. The calculated molecular weight of EIF4G1 is 175 kDa, but modified EIF4G1 is about 220-240 kDa. (PMID: 18426977)

Notable Publications

Author	Pubmed ID	Journal	Application
Fa-Liang Xing	39289547	Acta Pharmacol Sin	IF
Dandan Lin	37992763	Antiviral Res	WB

Storage

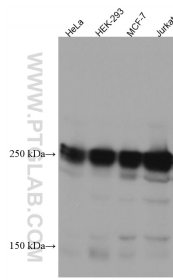
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

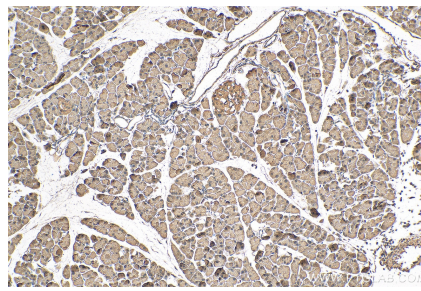
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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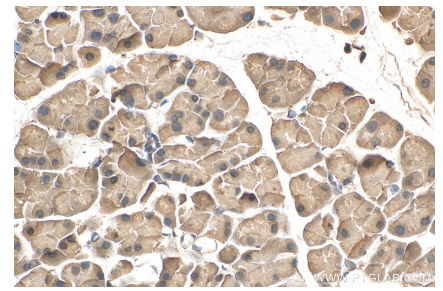
Selected Validation Data



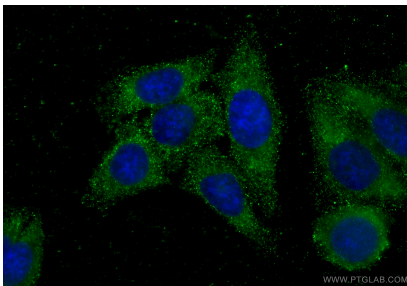
Various lysates were subjected to SDS PAGE followed by western blot with 67199-1-Ig (EIF4G1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse pancreas tissue slide using 67199-1-Ig (EIF4G1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse pancreas tissue slide using 67199-1-Ig (EIF4G1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using EIF4G1 antibody (67199-1-Ig, Clone: 2B10G8) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1).