

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 A purification
Size: 972 $\mu$ g/ml	GeneID (NCBI): 1981	CloneNo.: 2B10G8
Source: Mouse	UNIPROT ID: Q04637	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:50-1:500 IF/ICC 1:50-1:500
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,
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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

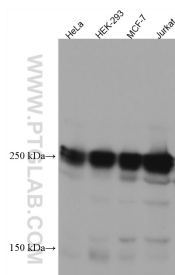
## Storage

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

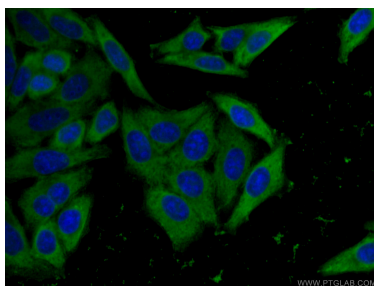
For technical support and original validation data for this product please contact:  
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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

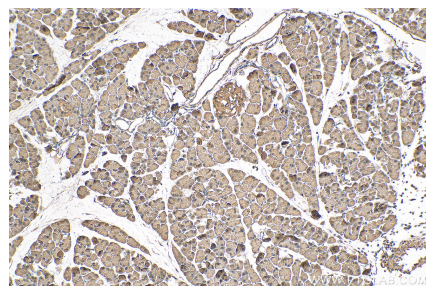
## Selected Validation Data



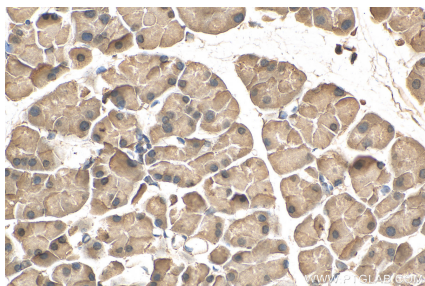
Various lysates were subjected to SDS PAGE followed by western blot with 67199-1-Ig (EIF4G1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using 67199-1-Ig (EIF4G1 antibody) at dilution of 1:100 and CoraLite488-Conjugated Goat Anti-Mouse IgG(H+L).



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).