

For Research Use Only

# EIF3G Polyclonal antibody

Catalog Number: 11165-1-AP **3 Publications**



## Basic Information

<b>Catalog Number:</b> 11165-1-AP	<b>GenBank Accession Number:</b> BC000733	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 700 ug/ml by Nanodrop and 227 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 8666	<b>Recommended Dilutions:</b> WB 1:500-1:1000
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> O75821	<b>IHC 1:500-1:2000</b>
<b>Isotype:</b> IgG	<b>Full Name:</b> eukaryotic translation initiation factor 3, subunit G	<b>IF/ICC 1:10-1:100</b>
<b>Immunogen Catalog Number:</b> AG1653	<b>Calculated MW:</b> 36 kDa	
	<b>Observed MW:</b> 44 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, ELISA	<b>Positive Controls:</b> WB : HepG2 cells,
<b>Cited Applications:</b> WB, IF	<b>IHC :</b> human colon cancer tissue, mouse colon tissue, rat colon tissue
<b>Species Specificity:</b> human, mouse, rat	<b>IF/ICC :</b> HepG2 cells, A549 cells
<b>Cited Species:</b> human, mouse	
<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 translation initiation factor eIF3, that plays a central role in translation initiation, consists of five core subunits that are present in both the budding yeast and higher eukaryotes. The EIF-3 complex associates with the 40S ribosome and facilitates the recruitment of eIF-1, eIF-1A, eIF-2:GTP:methionyl-tRNAi and eIF-5 to form the 43S preinitiation complex. The complex stimulates mRNA recruitment to the 43S PIC and scanning of the mRNA for AUG recognition. It is also required for disassembly and recycling of post-termination ribosomal complexes and subsequently prevents premature joining of the 40S and 60S ribosomal subunits prior to initiation. EIF3G is a component of the EIF3 complex. [PMID:20679478,20503360]

## Notable Publications

Author	Pubmed ID	Journal	Application
Jordan M Meyers	34597346	PLoS Pathog	IF
Anaïs Aulas	30425239	Cell Death Dis	IF
Xin Erica Shu	34887587	Nat Chem Biol	WB

## Storage

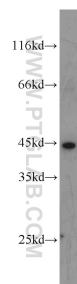
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

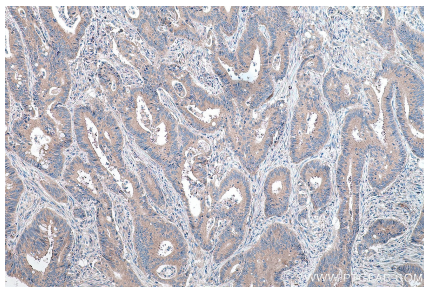
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

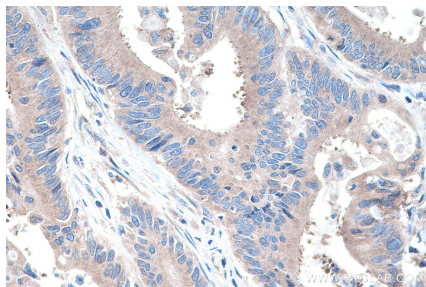
## Selected Validation Data



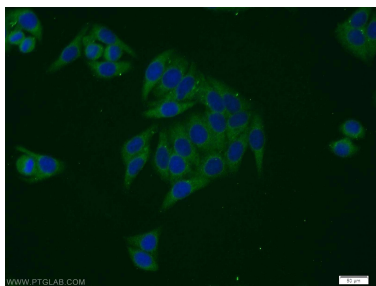
HepG2 cells were subjected to SDS PAGE followed by western blot with 11165-1-AP (EIF3G antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 11165-1-AP (EIF3G antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 11165-1-AP (EIF3G antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of HepG2 cells using 11165-1-AP (EIF3G antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).