

For Research Use Only

# EIF3D Monoclonal antibody

Catalog Number: 66024-1-Ig **1 Publications**



## Basic Information

<b>Catalog Number:</b> 66024-1-Ig	<b>GenBank Accession Number:</b> BC000328	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1700 ug/ml by Nanodrop and 780 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 8664	<b>CloneNo.:</b> 2C5A3
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> O15371	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:20-1:200 IF/ICC 1:50-1:500
<b>Isotype:</b> IgG2b	<b>Full Name:</b> eukaryotic translation initiation factor 3, subunit D	
<b>Immunogen Catalog Number:</b> AG18092	<b>Calculated MW:</b> 66 kDa	
	<b>Observed MW:</b> 66 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> WB	<b>WB :</b> HepG2 cells, A431 cells, HeLa cells, human brain tissue, mouse liver tissue, rat liver tissue
<b>Species Specificity:</b> human, mouse, rat	<b>IHC :</b> human brain tissue,
<b>Cited Species:</b> human	<b>IF/ICC :</b> HeLa 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

The mammalian translation initiation factor 3 (eIF3), is a multiprotein complex of ~600 kDa that binds to the 40 S ribosome and promotes the binding of methionyl-tRNAi and mRNA. The EIF3S7(p66) is the major RNA binding subunit in this complex. Human eIF3-p66 shares 64% sequence identity with a hypothetical *Caenorhabditis elegans* protein, presumably the p66 homolog. Deletion analyses of recombinant derivatives of eIF3-p66 show that the RNA-binding domain lies within an N-terminal 71-amino acid region rich in lysine and arginine.

## Notable Publications

Author	Pubmed ID	Journal	Application
Dandan Lu	38535990	Aging (Albany NY)	WB

## Storage

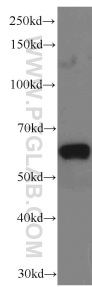
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

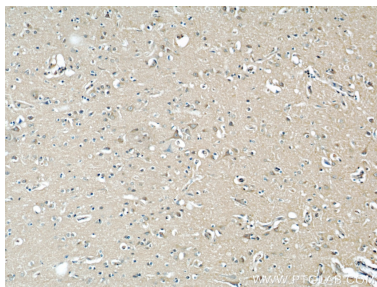
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

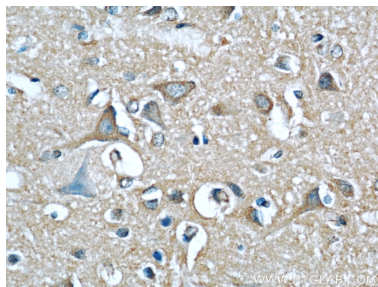
Selected Validation Data



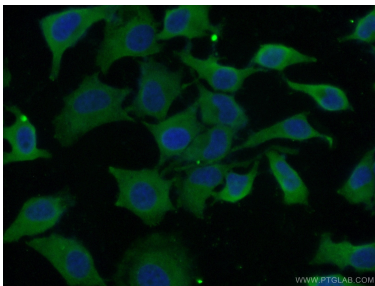
HepG2 cells were subjected to SDS PAGE followed by western blot with 66024-1-Ig (EIF3D antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



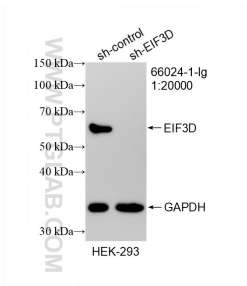
Immunohistochemical analysis of paraffin-embedded human brain using 66024-1-Ig(EIF3D antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human brain using 66024-1-Ig(EIF3D antibody) at dilution of 1:50 (under 40x lens).



Immunofluorescent analysis of (10% Formaldehyde ) fixed HeLa cells using 66024-1-Ig(EIF3D antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated Goat Anti-Mouse IgG(H+L).



WB result of EIF3D antibody (66024-1-Ig; 1:20000; incubated at room temperature for 1.5 hours) with sh-Control and sh-EIF3D transfected HEK-293 cells.