

For Research Use Only

# EIF3D Monoclonal antibody

Catalog Number: 66024-1-Ig



## 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> 1000 µg/ml	<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 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

**Tested Applications:**  
IF/ICC, IHC, WB, ELISA

**Species Specificity:**  
human, mouse, rat

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

**WB:** HepG2 cells, A431 cells, HeLa cells, human brain tissue, mouse liver tissue, rat liver tissue

**IHC:** human brain tissue,

**IF:** HeLa cells,

## 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-tRNA<sub>i</sub> 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.

## 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:

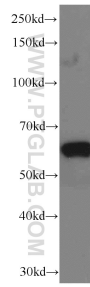
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

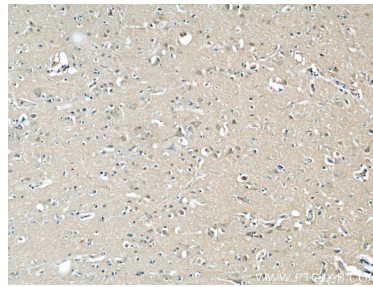
W: [ptgcn.com](http://ptgcn.com)

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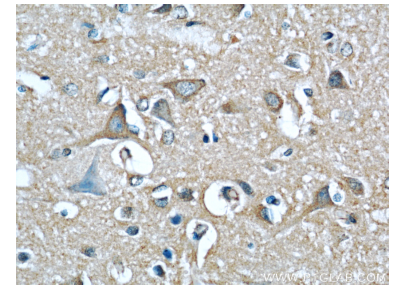
## Selected Validation Data



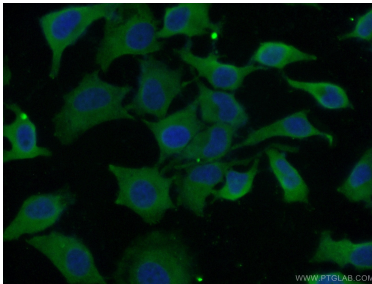
HepG2 cells were subjected to SDS PAGE followed by western blot with 66024-1-Ig (EIF3D antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



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 AffiniPure Goat Anti-Mouse IgG(H+L).