

For Research Use Only

# EIF3D Polyclonal antibody

Catalog Number: 10219-1-AP

Featured Product

20 Publications



## Basic Information

### Catalog Number:

10219-1-AP

### Size:

150ul, Concentration: 450 µg/ml by Nanodrop and 293 µg/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG0268

### GenBank Accession Number:

BC000328

### GeneID (NCBI):

8664

### UNIPROT ID:

O15371

### Full Name:

eukaryotic translation initiation factor 3, subunit D

### Calculated MW:

66 kDa

### Observed MW:

66 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:1000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:20-1:200

## Applications

### Tested Applications:

WB, IP, IF, IHC, ELISA

### Cited Applications:

WB, IF, PLA, IHC, CoIP

### Species Specificity:

human, mouse, yeast

### Cited Species:

human, yeast, rat, mouse, rabbit

**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: mouse brain tissue, L02 cells, A549 cells, HepG2 cells, human brain tissue, Jurkat cells

IP: A549 cells,

IHC: human breast cancer tissue,

## 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
Junjie Zhao	32989225	Br J Cancer	IF
Gracy X Rosario	25031358	Biol Reprod	IF
Hai Huang	31669222	EBioMedicine	IHC

## 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

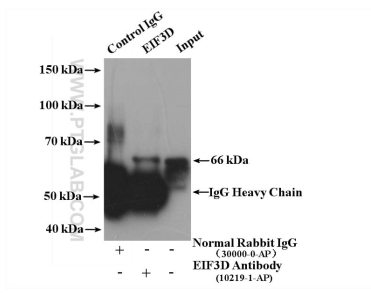
For technical support and original validation data for this product please contact:

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

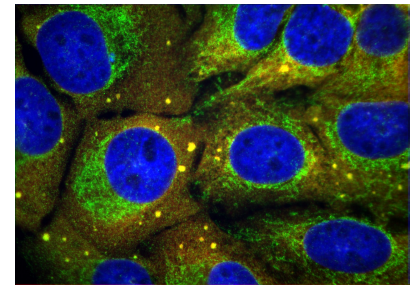
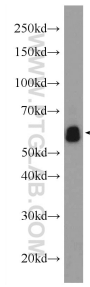
This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

## Selected Validation Data

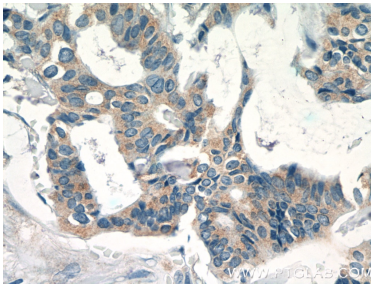


IP result of anti-EIF3D (IP:10219-1-AP, 4ug; Detection:10219-1-AP 1:300) with A549 cells lysate 2800 ug.

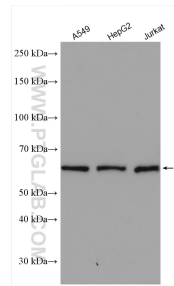
mouse brain tissue were subjected to SDS PAGE followed by western blot with 10219-1-AP (EIF3D Antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



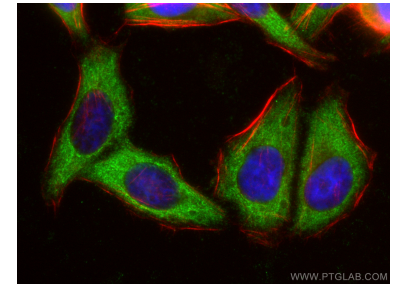
IF result of 10219-1-AP (anti-EIF3D) in U2OS cell (treated with 100 mM sodium arsenite to cause stress-induced translational arrest) by Dr. Nancy Kedersha.U2OS cells (FAST-YFP stables; but not showing FAST-YFP); stained with PTG anti-eIF3p66 in green; and counterstained with anti-eIF3b (goat polyclonal) in red; nuclei stained blue using Hoechst.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 10219-1-AP (EIF3D Antibody) at dilution of 1:50 (under 40x lens).



Various lysates were subjected to SDS PAGE followed by western blot with 10219-1-AP (EIF3D antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using EIF3D antibody (10219-1-AP) at dilution of 1:200 and Coralite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).