

For Research Use Only

EIF3D Polyclonal antibody

Catalog Number: 10219-1-AP

Featured Product

23 Publications



Basic Information

Catalog Number:

10219-1-AP

Concentration:

550 ug/ml

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

IF/ICC: 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IHC, IF, CoIP, PLA

Species Specificity:

human, mouse, yeast

Cited Species:

human, mouse, rat, rabbit, yeast

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, A549 cells, HepG2 cells, human brain tissue, L02 cells, HEK-293 cells, Jurkat cells

IP: A549 cells,

IHC: human breast cancer tissue,

IF/ICC: HepG2 cells, Ethacrynic acid treated HepG2 cells, transfected cells, N/A, MCF-7 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-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, pH7.3

Aliquoting is unnecessary for -20°C storage

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

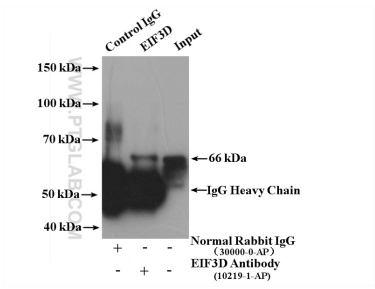
T: 4006900926

E: Proteintech-CN@ptglab.com

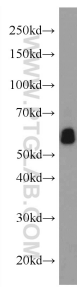
W: ptgcn.com

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

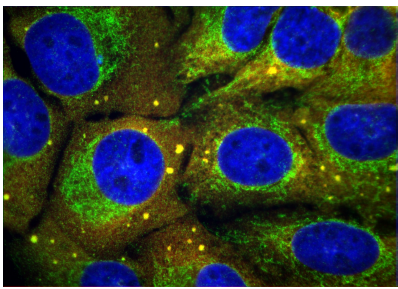
Selected Validation Data



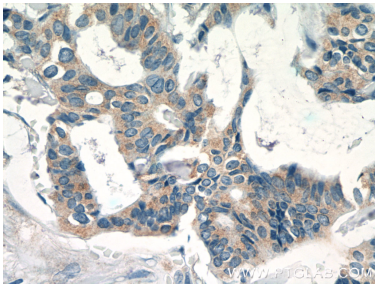
IP result of anti-EIF3D (IP:10219-1-AP, 4ug; Detection:10219-1-AP 1:300) with A549 cells lysate 2800 ug.



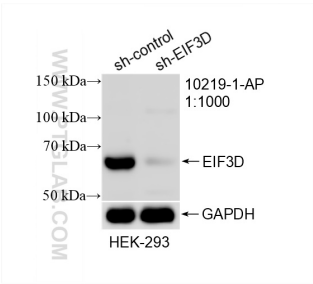
mouse brain tissue were subjected to SDS PAGE followed by western blot with 10219-1-AP (EIF3D Antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



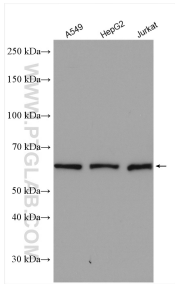
IF result of 10219-1-AP (anti-EIF3D) in U2OS cell (treated with 100 mM sodium arsenite to cause stress-induced translational arrest) by Dr. Nancy Kedersha.U2OS cells (FAST-YFP stables; but not showing FAST-YFP); stained with PTG anti-eIF3p66 in green; and counterstained with anti-eIF3b (goat polyclonal)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



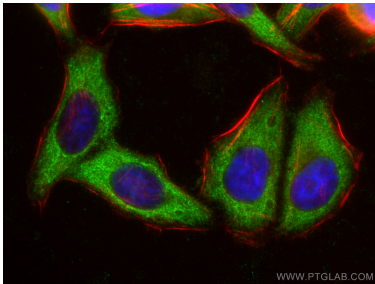
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 10219-1-AP (EIF3D Antibody) at dilution of 1:50 (under 40x lens).



WB result of EIF3D antibody (10219-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-EIF3D transfected HEK-293 cells.



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).