

For Research Use Only

EIF3J Polyclonal antibody

Catalog Number: 10439-1-AP

Featured Product

3 Publications



Basic Information

Catalog Number:

10439-1-AP

Size:

400 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG0678

GenBank Accession Number:

BC002719

GeneID (NCBI):

8669

UNIPROT ID:

O75822

Full Name:

eukaryotic translation initiation factor 3, subunit J

Calculated MW:

28 kDa

Observed MW:

35 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

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

IHC 1:20-1:200

IF 1:20-1:200

Applications

Tested Applications:

IF/ICC, IHC, IP, WB, ELISA

Cited Applications:

IF, IP, WB

Species Specificity:

human

Cited Species:

human

Positive Controls:

WB: HeLa cells, A549 cells, HEK-293 cells, Jurkat cells, K-562 cells, MCF-7 cells, SKOV-3 cells

IP: HeLa cells,

IHC: human breast cancer tissue,

IF: HeLa cells,

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

Background Information

EIF3 has a key role in binding of initiator methionyl-tRNA and mRNA to the 40S ribosomal subunit to form the 40S initiation complex (PMID:17588516). The eIF3 complex stimulates several steps in the translation initiation pathway, including dissociation of 80S ribosomes into 40S and 60S subunits, binding of a ternary complex (TC) consisting of Met-tRNA, eIF2, and GTP to the small subunit (forming the 43S preinitiation complex) and recruitment of mRNA to the 43S complex to produce the 48S complex (PMID:11560931). EIF3J was identified as a high copy suppressor of the temperature-sensitive (Ts-) phenotype of the rpg1-1 allele of TIF32/RPG1, encoding the largest subunit of yeast eIF3 (eIF3a) (PMID:10488093).

Notable Publications

Author	Pubmed ID	Journal	Application
Anaïs Aulas	30425239	Cell Death Dis	IF
Aravinth Kumar Jayabalan	37873303	bioRxiv	WB
Ramírez-Valle Francisco F	18426977	J Cell Biol	WB,IF,IP

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:

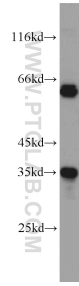
T: 4006900926

E: Proteintech-CN@ptglab.com

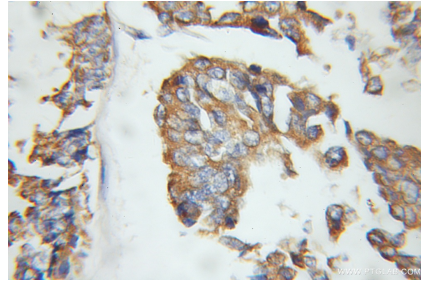
W: ptgcn.com

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

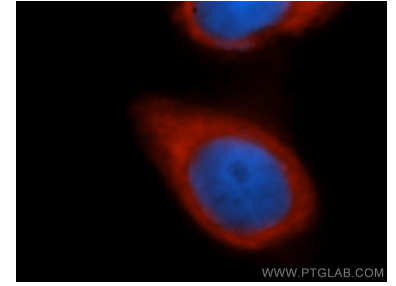
Selected Validation Data



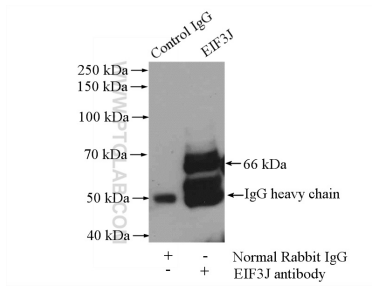
HeLa cells were subjected to SDS PAGE followed by western blot with 10439-1-AP (EIF3J antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human breast cancer using 10439-1-AP (EIF3J antibody) at dilution of 1:100 (under 10x lens).



Immunofluorescent analysis of HeLa cells, using EIF3J antibody 10439-1-AP at 1:50 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).



IP result of anti-EIF3J (IP:10439-1-AP, 4ug;
Detection:10439-1-AP 1:500) with HeLa cells lysate 880ug.