

For Research Use Only

# EIF3J Polyclonal antibody

Catalog Number:10439-1-AP

Featured Product

4 Publications



## Basic Information

### Catalog Number:

10439-1-AP

### Size:

400 ug/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 ug for 1.0-3.0 mg of total

protein lysate

IHC 1:20-1:200

IF/ICC 1:200-1:800

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IF, IP

### Species Specificity:

human

### Cited Species:

human, pig

### 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/ICC : 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
Lu Li	39207136	J Virol	WB
Aravindh Kumar Jayabalan	37873303	bioRxiv	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

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

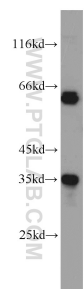
T: 4006900926

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

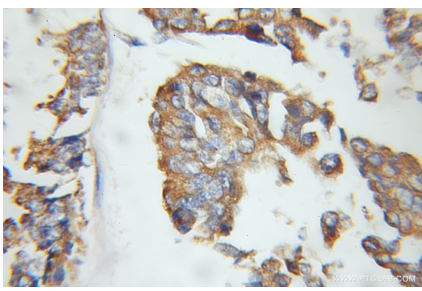
W: [ptgcn.com](http://ptgcn.com)

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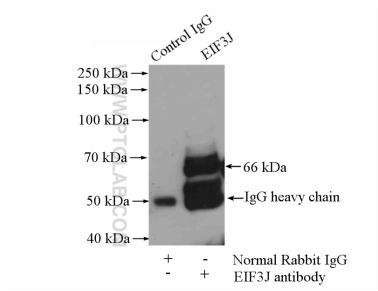
Selected Validation Data



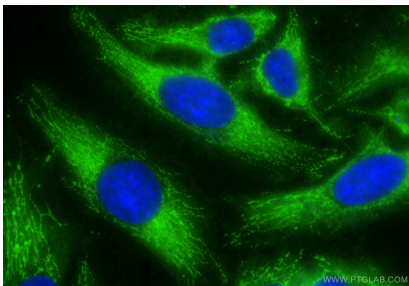
HeLa cells were subjected to SDS PAGE followed by western blot with 10439-1-AP (EIF3J antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



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



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



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using EIF3J antibody (10439-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).