

# EIF3J

## Polyclonal ANTIBODY

Catalog Number: 10439-1-AP

Featured Product

1 Publications

### Basic Information

**Catalog Number:**  
10439-1-AP

**Size:**  
33 µg/150 µl

**Source:**  
Rabbit

**Isotype:**  
IgG

**Purification Method:**  
Antigen affinity purification

**Immunogen Catalog Number:**  
AG0678

**GenBank Accession Number:**  
BC002719

**GeneID (NCBI):**  
8669

**Full Name:**  
eukaryotic translation initiation factor 3, subunit J

**Calculated MW:**  
28 kDa

**Observed MW:**  
35 kDa

**Recommended Dilutions:**

WB 1:500-1:1000

IP 0.5-4.0 µg for IP and 1:500-1:1000 for WB

IHC 1:20-1:200

IF 1:20-1:200

### Applications

**Tested Applications:**  
IF, IHC, IP, WB, ELISA

**Cited Applications:**  
IF, IP, WB

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

**Cited Species:**  
human

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

**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;

### 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
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 0.1% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

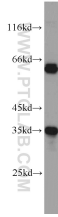
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

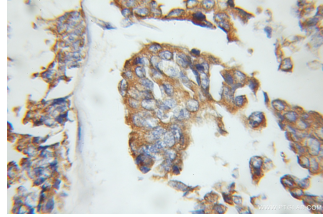
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

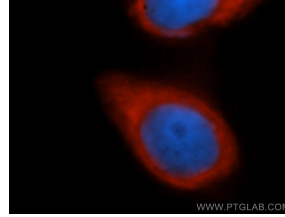
## Selected Validation Data



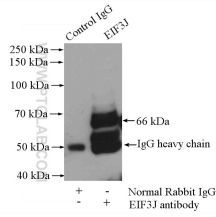
HeLa cells were subjected to SDS PAGE followed by western blot with 10439-1-AP/EIF3J antibody at dilution of 1:500 incubated at room temperature for 1.5 hours



Immunohistochemical 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.