

For Research Use Only

EIF3J Polyclonal antibody

Catalog Number: 10439-1-AP

Featured Product

3 Publications



Basic Information

Catalog Number: 10439-1-AP	GenBank Accession Number: BC002719	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 400 µg/ml by Nanodrop and 220 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 8669	Recommended Dilutions: WB 1:500-1:1000 IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB
Source: Rabbit	Full Name: eukaryotic translation initiation factor 3, subunit J	IHC 1:20-1:200 IF 1:20-1:200
Isotype: IgG	Calculated MW: 28 kDa	
Immunogen Catalog Number: AG0678	Observed MW: 35 kDa	

Applications

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

Cited Applications:
IF, IP, WB

Species Specificity:
human

Cited Species:
human

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 : 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
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

*** 20ul sizes contain 0.1% BSA

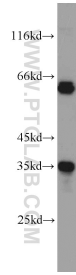
For technical support and original validation data for this product please contact:

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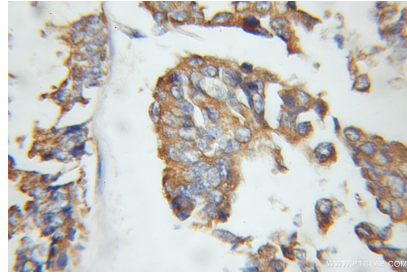
E: proteintech@ptglab.com
W: ptglab.com

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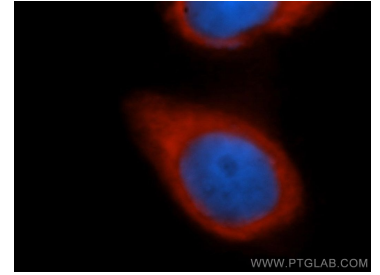
Selected Validation Data



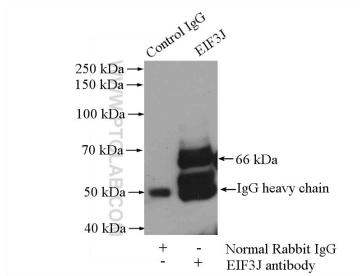
HeLa cells were subjected to SDS PAGE followed by western blot with 10439-1-AP (EIF3J antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



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



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, 4 μ g; Detection:10439-1-AP 1:500) with HeLa cells lysate 880 μ g.