For Research Use Only

EIF3J Polyclonal ANTIBODY

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Antibodies | ELISA kits | Proteins
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Catalog Number:10439-1-AP Featured Product 2 Publications

Basic Information

Catalog Number:
10439-1-AP

Size:
150UL , Concentration: 220 μg/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

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

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:1000
IP 0.5-4.0 ug 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

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 43 S 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
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
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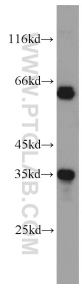
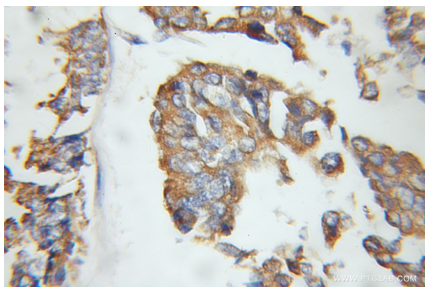
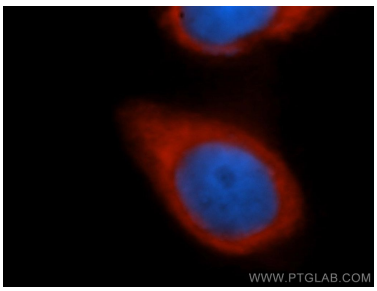
Selected Validation Data



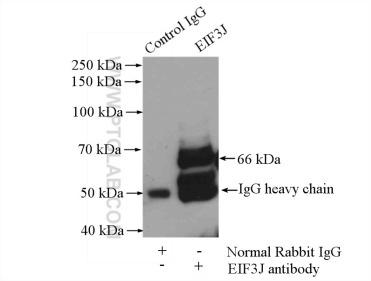
HeLa cells were subjected to SDS PAGE followed by western blot with 10439-1-AP (EIF3J antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



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