

For Research Use Only

EIF3J Polyclonal antibody

Catalog Number: 10439-1-AP

Featured Product

4 Publications



Basic Information

Catalog Number:

10439-1-AP

Size:

150ul, Concentration: 400 ug/ml by Nanodrop and 220 ug/ml by Bradford method using BSA as the standard;

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

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/ICC : 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
Lu Li	39207136	J Virol	WB
Aravinth 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

*** 20ul sizes contain 0.1% BSA

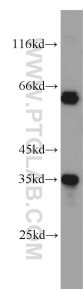
For technical support and original validation data for this product please contact:

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

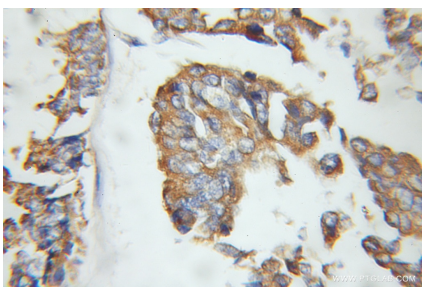
E: proteintech@ptglab.com
W: ptglab.com

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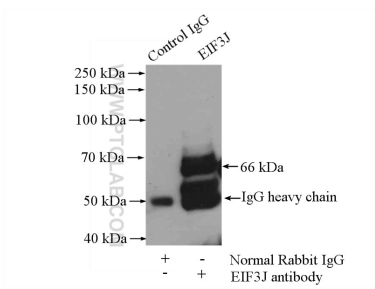
Selected Validation Data



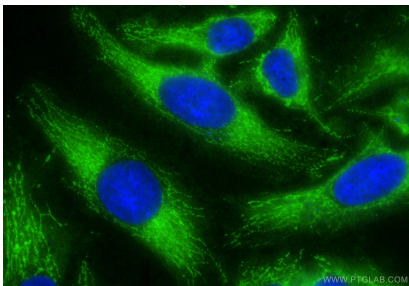
HeLa cells were subjected to SDS PAGE followed by western blot with 10439-1-AP (EIF3J antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



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



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).