

For Research Use Only

# EIF3B Polyclonal antibody

Catalog Number: 10319-1-AP

8 Publications



## Basic Information

### Catalog Number:

10319-1-AP

### Size:

150ul, Concentration: 300 ug/ml by Nanodrop and 267 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG0386

### GenBank Accession Number:

BC001173

### GeneID (NCBI):

8662

### UNIPROT ID:

P55884

### Full Name:

eukaryotic translation initiation factor 3, subunit B

### Calculated MW:

93 kDa

### Observed MW:

115 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:200-1:1000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

## Applications

### Tested Applications:

WB, IP, ELISA

### Cited Applications:

WB, IF

### Species Specificity:

human

### Cited Species:

human, mouse

### Positive Controls:

WB : A375 cells,

IP : A375 cells,

## Background Information

EIF3B, also named as Eukaryotic translation initiation factor 3 subunit B, is a 814 amino acid protein, which contains 1 RRM (RNA recognition motif) domain and 8 WD repeats and belongs to the eIF-3 subunit B family. EIF3B as a RNA-binding component of the eukaryotic translation initiation factor 3 (eIF-3) complex, is required for several steps in the initiation of protein synthesis. The eIF-3 complex associates with the 40S ribosome and facilitates the recruitment of eIF-1, eIF-1A, eIF-2:GTP:methionyl-tRNAi and eIF-5 to form the 43S pre-initiation complex (43S PIC). The eIF-3 complex stimulates mRNA recruitment to the 43S PIC and scanning of the mRNA for AUG recognition. The eIF-3 complex is also required for disassembly and recycling of post-termination ribosomal complexes and subsequently prevents premature joining of the 40S and 60S ribosomal subunits prior to initiation. The eIF-3 complex specifically targets and initiates translation of a subset of mRNAs involved in cell proliferation, including cell cycling, differentiation and apoptosis, and uses different modes of RNA stem-loop binding to exert either translational activation or repression. The calculated molecular weight of EIF3B is 93 kDa, but the phosphorylated EIF3B protein is about 115 kDa.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yuanpei Li	36289222	Nat Commun	WB
Li Wang	33236014	bioRxiv	WB
Chiara Bellio	35626166	Cancers (Basel)	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

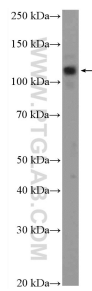
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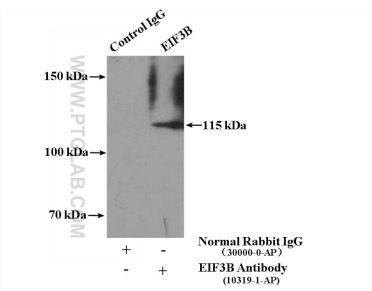
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Selected Validation Data



A375 cells were subjected to SDS PAGE followed by western blot with 10319-1-AP (EIF3B Antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



IP result of anti-EIF3B (IP:10319-1-AP, 4ug; Detection:10319-1-AP 1:300) with A375 cells lysate 3600ug.