

For Research Use Only

# EIF3B Polyclonal antibody

Catalog Number: 10319-1-AP **8 Publications**



## Basic Information

<b>Catalog Number:</b> 10319-1-AP	<b>GenBank Accession Number:</b> BC001173	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 300 ug/ml by Nanodrop and 267 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 8662	<b>Recommended Dilutions:</b> WB 1:200-1:1000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P55884	
<b>Isotype:</b> IgG	<b>Full Name:</b> eukaryotic translation initiation factor 3, subunit B	
<b>Immunogen Catalog Number:</b> AG0386	<b>Calculated MW:</b> 93 kDa	
	<b>Observed MW:</b> 115 kDa	

## Applications

<b>Tested Applications:</b> WB, IP, ELISA	<b>Positive Controls:</b> WB : A375 cells, IP : A375 cells,
<b>Cited Applications:</b> WB, IF	
<b>Species Specificity:</b> human	
<b>Cited Species:</b> human, mouse	

## 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

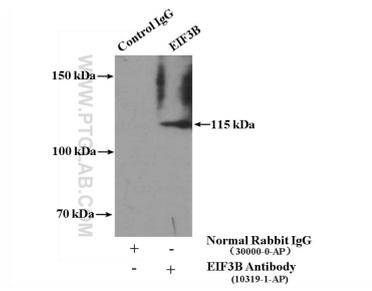
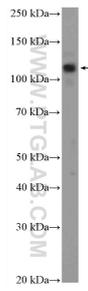
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

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



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.