For Research Use Only

EIF3B Polyclonal antibody

Catalog Number:10319-1-AP 7 Publications

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:
10319-1-AP

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

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG0386

GenBank Accession Number:
BC001173

GeneID (NCBI):
8662

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 IP and 1:200-1:1000 for WB

Applications

Tested Applications:
IP, WB, ELISA

Cited Applications:
IF, WB

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

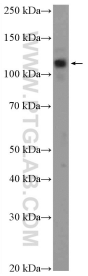
Storage

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

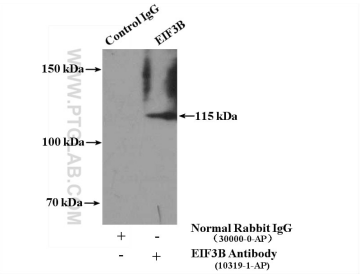
*** 20ul sizes contain 0.1% BSA

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

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.