

EIF3B Monoclonal antibody

Catalog Number: 68202-1-Ig

Basic Information

Catalog Number:

68202-1-Ig

Size:

1000 µg/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG31427

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:

Protein G purification

CloneNo.:

1G12G12

Recommended Dilutions:

WB 1:2000-1:10000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

Human, mouse, rat

Positive Controls:

WB : HCT 116 cells, A431 cells, HeLa cells, HEK-293 cells, HepG2 cells, Jurkat cells, K-562 cells, HSC-T6 cells, NIH/3T3 cells

Background Information

EIF3B, also named Eukaryotic translation initiation factor 3 subunit B, is an 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 an 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.

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

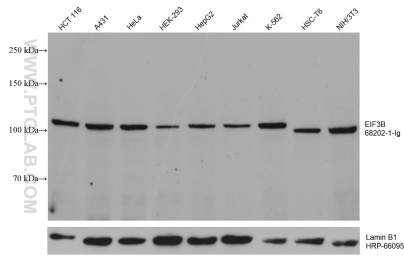
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68202-1-Ig (EIF3B antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Lamin B1 Monoclonal antibody (HRP-66095) as loading control.