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Anti-Eif3b Antibody
Catalog # ABO11337

Specification

Anti-Eif3b Antibody - Product Information

Application	**WB**
Primary Accession	P55884
Host	**Rabbit**
Reactivity	**Human, Mouse, Rat**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for Eukaryotic translation initiation factor 3 subunit B(EIF3B) detection. Tested with WB in Human;Mouse;Rat.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-Eif3b Antibody - Additional Information

Gene ID 8662

Other Names
Eukaryotic translation initiation factor 3 subunit B {ECO:0000255|HAMAP-Rule:MF_03001}, eIF3b {ECO:0000255|HAMAP-Rule:MF_03001}, Eukaryotic translation initiation factor 3 subunit 9 {ECO:0000255|HAMAP-Rule:MF_03001}, Prt1 homolog, hPrt1, eIF-3-eta {ECO:0000255|HAMAP-Rule:MF_03001}, eIF3 p110 {ECO:0000255|HAMAP-Rule:MF_03001}, eIF3 p116, EIF3B {ECO:0000255|HAMAP-Rule:MF_03001}

Calculated MW
92482 MW KDa

Application Details
Western blot, 0.1-0.5 µg/ml, Human, Rat, Mouse

Subcellular Localization
Cytoplasm .

Protein Name
Eukaryotic translation initiation factor 3 subunit B

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.

Immunogen
A synthetic peptide corresponding to a sequence at the C-terminus of human eIF3B(755-775aa EDFRKYRKMAQELYMEQKNER), different from the related rat and mouse sequences by one amino acid.

Purification
Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins

Storage

At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.

Sequence Similarities
Belongs to the eIF-3 subunit B family.

Anti-Eif3b Antibody - Protein Information

Name EIF3B {ECO:0000255|HAMAP-Rule:MF_03001}

Function
RNA-binding component of the eukaryotic translation initiation factor 3 (eIF-3) complex, which is required for several steps in the initiation of protein synthesis (PubMed:17581632, PubMed:25849773, PubMed:27462815, PubMed:9388245). 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 (PubMed:17581632, PubMed:9388245). 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 (PubMed:25849773).

Cellular Location
Cytoplasm {ECO:0000255|HAMAP-Rule:MF_03001}. Cytoplasm, Stress granule. Note=Localizes to stress granules following cellular stress

Anti-Eif3b Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety

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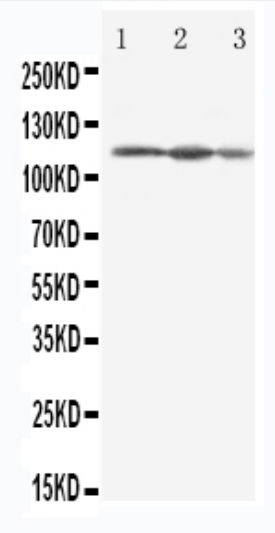
- Cell Culture

Anti-Eif3b Antibody - Images



Anti-Eif3b antibody, ABO11337, Western blottingLane 1: HELA Cell LysateLane 2: 293T Cell LysateLane 3: A431 Cell Lysate

Anti-Eif3b Antibody - Background

EIF3B(Eukaryotic Translation Initiation Factor 3, Subunit B), also called PRT1 or EIF3-p116, is a protein that in humans is encoded by the EIF3B gene. By searching an EST database, Methot et al.(1997) identified a cDNA encoding a human Prt1 homolog. Asano et al.(1997) demonstrated that the 115-kD component of HeLa cell eIF3 is actually composed of 2 proteins, p116(PRT1) and an unrelated 110-kD protein. Chaudhuri et al.(1997) isolated cDNAs encoding PRT1, which they called p110 based on the size of the corresponding component of rabbit eIF3.