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KD-Validated Anti-EIF3B Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1829

Specification

KD-Validated Anti-EIF3B Rabbit Monoclonal Antibody - Product Information

Application	**WB**
Primary Accession	P55884
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 92 kDa, observed, 117 kDa KDa**
Gene Name	**EIF3B**
Aliases	**EIF3B; Eukaryotic Translation Initiation Factor 3 Subunit B; EIF3S9; PRT1; Eukaryotic Translation Initiation Factor 3, Subunit 9 Eta, 116kDa; Eukaryotic Translation Initiation Factor 3 Subunit 9; Protein Synthesis 1; Prt1 Homolog; Eukaryotic Translation Initiation Factor 3, Subunit 9 (Eta, 116kD); Eukaryotic Translation Initiation Factor 3, Subunit B; EIF3-P110; EIF3-P116; EIF-3-Eta; EIF3 P110; EIF3 P116; EIF3-ETA; EIF3b; HPrt1**
Immunogen	**A synthesized peptide derived from human eIF3B**

KD-Validated Anti-EIF3B Rabbit Monoclonal 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}

KD-Validated Anti-EIF3B Rabbit Monoclonal 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).

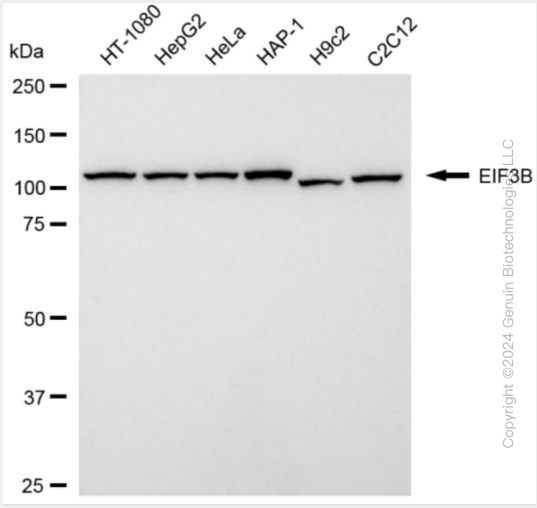
Cellular Location
Cytoplasm {ECO:0000255|HAMAP-Rule:MF_03001}. Cytoplasm, Stress granule. Note=Localizes to stress granules following cellular stress

KD-Validated Anti-EIF3B Rabbit Monoclonal 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
- Cell Culture

KD-Validated Anti-EIF3B Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-EIF3B antibody (Cat#AGI1829). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-EIF3B antibody (Cat#AGI1829, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

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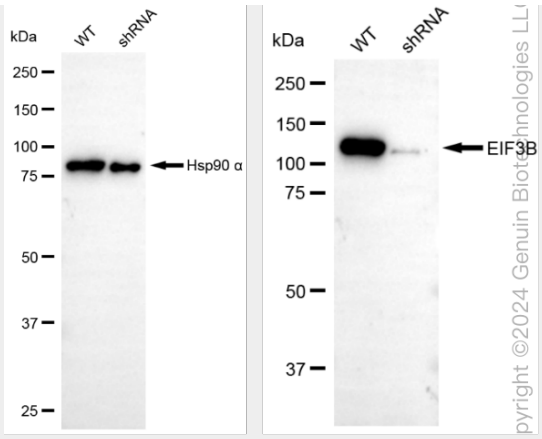

Western blotting analysis using anti-EIF3B antibody (Cat#AGI1829). EIF3B expression in wild type (WT) and EIF3B shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-EIF3B antibody (Cat#AGI1829, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.