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KD-Validated Anti-EIF3B Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1829

Product Information

Application	WB
Primary Accession	P55884
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	24GB4545
Calculated MW	92482
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

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}

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

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