

EIF3B Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP9291c**Specification**

EIF3B Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [P55884](#)**EIF3B Antibody (Center) Blocking Peptide - 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}

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP9291c](/products/AP9291c) was selected from the Center region of human EIF3B. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

EIF3B Antibody (Center) Blocking Peptide - 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: [9388245](http://www.uniprot.org/citations/9388245), PubMed: [17581632](http://www.uniprot.org/citations/17581632), PubMed: [25849773](http://www.uniprot.org/citations/25849773), PubMed: [27462815](http://www.uniprot.org/citations/27462815)). 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:9388245, PubMed:17581632). 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

EIF3B Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

EIF3B Antibody (Center) Blocking Peptide - Images

EIF3B Antibody (Center) Blocking Peptide - Background

eIF3B binds to the 40S ribosome and promotes the binding of methionyl-tRNA_i and mRNA. The eIF3 complex is composed of at least 12 different subunits.

EIF3B Antibody (Center) Blocking Peptide - References

Elantak,L., et.al, J. Mol. Biol. 396 (4), 1097-1116 (2010)Zhou,M., et.al, Proc. Natl. Acad. Sci. U.S.A. 105 (47), 18139-18144 (2008)Masutani,M., et.al, EMBO J. 26 (14), 3373-3383 (2007)