

EIF3D Antibody (aa101-150)
Rabbit Polyclonal Antibody
Catalog # ALS14212**Specification**

EIF3D Antibody (aa101-150) - Product Information

Application	WB
Primary Accession	O15371
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	64kDa KDa

EIF3D Antibody (aa101-150) - Additional Information**Gene ID** 8664**Other Names**

Eukaryotic translation initiation factor 3 subunit D {ECO:0000255|HAMAP-Rule:MF_03003}, eIF3d {ECO:0000255|HAMAP-Rule:MF_03003}, Eukaryotic translation initiation factor 3 subunit 7 {ECO:0000255|HAMAP-Rule:MF_03003}, eIF-3-zeta {ECO:0000255|HAMAP-Rule:MF_03003}, eIF3 p66, EIF3D {ECO:0000255|HAMAP-Rule:MF_03003}

Target/Specificity

EIF3D Antibody detects endogenous levels of total EIF3D protein.

Reconstitution & Storage

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

Precautions

EIF3D Antibody (aa101-150) is for research use only and not for use in diagnostic or therapeutic procedures.

EIF3D Antibody (aa101-150) - Protein Information**Name** EIF3D {ECO:0000255|HAMAP-Rule:MF_03003}**Function**

mRNA cap-binding component of the eukaryotic translation initiation factor 3 (eIF-3) complex, a complex required for several steps in the initiation of protein synthesis of a specialized repertoire of mRNAs (PubMed:27462815). The eIF-3 complex associates with the 40S ribosome and facilitates the recruitment of eIF-1, eIF-1A, eIF-2:GTP:methionyl-tRNA_i 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:18599441, PubMed:18599441).

href="http://www.uniprot.org/citations/25849773" target="_blank">25849773). 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). In the eIF-3 complex, EIF3D specifically recognizes and binds the 7-methylguanosine cap of a subset of mRNAs (PubMed:27462815).

Cellular Location

Cytoplasm {ECO:0000255|HAMAP-Rule:MF_03003}.

Volume

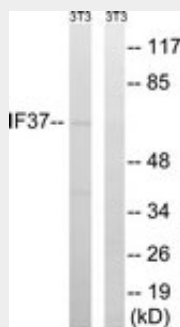
50 µl

EIF3D Antibody (aa101-150) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

EIF3D Antibody (aa101-150) - Images



Western blot of extracts from NIH-3T3 cells, using EIF3D Antibody.

EIF3D Antibody (aa101-150) - Background

Component of the eukaryotic translation initiation factor 3 (eIF-3) complex, which 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 preinitiation 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.

EIF3D Antibody (aa101-150) - References

Asano K., et al. J. Biol. Chem. 272:27042-27052(1997).

Kalnina N., et al. Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.
Collins J.E., et al. Genome Biol. 5:R84.1-R84.11(2004).
Ota T., et al. Nat. Genet. 36:40-45(2004).
Dunham I., et al. Nature 402:489-495(1999).