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EIF3G Antibody (aa200-250)
Rabbit Polyclonal Antibody
Catalog # ALS15267

Specification

EIF3G Antibody (aa200-250) - Product Information

Application	**WB, IHC-P**
Primary Accession	O75821
Reactivity	**Human, Mouse, Rat, Monkey, Horse, Bovine, Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**36kDa KDa**
Dilution	**WB~~1:1000** **IHC-P~~N/A**

EIF3G Antibody (aa200-250) - Additional Information

Gene ID 8666

Other Names
Eukaryotic translation initiation factor 3 subunit G {ECO:0000255|HAMAP-Rule:MF_03006}, eIF3g {ECO:0000255|HAMAP-Rule:MF_03006}, Eukaryotic translation initiation factor 3 RNA-binding subunit {ECO:0000255|HAMAP-Rule:MF_03006}, eIF-3 RNA-binding subunit {ECO:0000255|HAMAP-Rule:MF_03006}, Eukaryotic translation initiation factor 3 subunit 4 {ECO:0000255|HAMAP-Rule:MF_03006}, eIF-3-delta {ECO:0000255|HAMAP-Rule:MF_03006}, eIF3 p42 {ECO:0000255|HAMAP-Rule:MF_03006}, eIF3 p44 {ECO:0000255|HAMAP-Rule:MF_03006}, EIF3G {ECO:0000255|HAMAP-Rule:MF_03006}

Target/Specificity
Human EIF3G / EIF3S4

Reconstitution & Storage
Store at 4°C for short term applications. For long term storage, aliquot and store at -20°C.

Precautions
EIF3G Antibody (aa200-250) is for research use only and not for use in diagnostic or therapeutic procedures.

EIF3G Antibody (aa200-250) - Protein Information

Name EIF3G {ECO:0000255|HAMAP-Rule:MF_03006}

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:<a

href="http://www.uniprot.org/citations/27462815" target="_blank">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: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). This subunit can bind 18S rRNA.

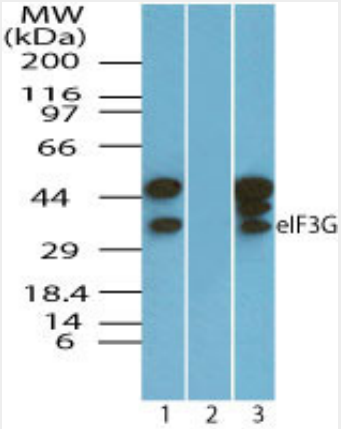
Cellular Location
Cytoplasm {ECO:0000255|HAMAP-Rule:MF_03006}. Nucleus {ECO:0000255|HAMAP-Rule:MF_03006, ECO:0000269|PubMed:17094969} Cytoplasm, perinuclear region {ECO:0000255|HAMAP-Rule:MF_03006, ECO:0000269|PubMed:17094969}. Note=Colocalizes with AIFM1 in the nucleus and perinuclear region

EIF3G Antibody (aa200-250) - 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

EIF3G Antibody (aa200-250) - Images



Western blot of eIF3G in Ramos cell lysate in the 1) absence and 2) presence of immunizing...

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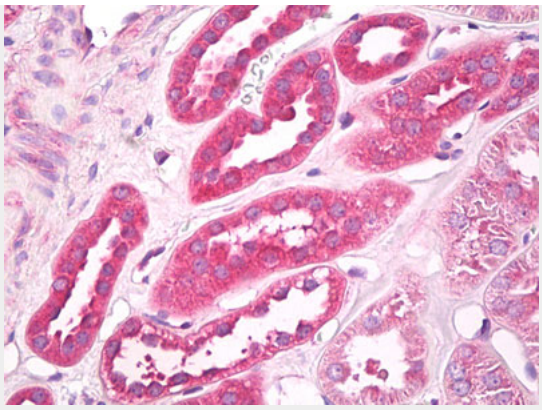

Anti-EIF3G antibody IHC of human kidney.

EIF3G Antibody (aa200-250) - 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. This subunit can bind 18S rRNA.

EIF3G Antibody (aa200-250) - References

Block K.L.,et al.J. Biol. Chem. 273:31901-31908(1998).
Bandyopadhyay A.,et al.Nucleic Acids Res. 27:1331-1337(1999).
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Kalnine N.,et al.Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.
Mayeur G.L.,et al.Eur. J. Biochem. 270:4133-4139(2003).