

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

EIF3G Antibody (aa200-250) - Product Information

Application	WB, IHC
Primary Accession	075821
Reactivity	Human, Mouse, Rat, Monkey, Horse, Bovine, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	36kDa KDa

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: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

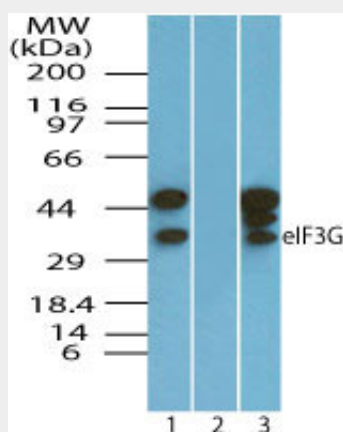
Cytoplasm {ECO:0000255|HAMAP-Rule:MF_03006}. Nucleus {ECO:0000255|HAMAP-Rule:MF_03006, ECO:0000269|PubMed:17094969} Cytoplasm, perinuclear region {ECO:0000255|HAMAP-Rule:MF_03006, ECO:0000269|PubMed:17094969}.
Note=Colocalizes with AIFM1 in the nucleus and perinuclear region

EIF3G Antibody (aa200-250) - Protocols

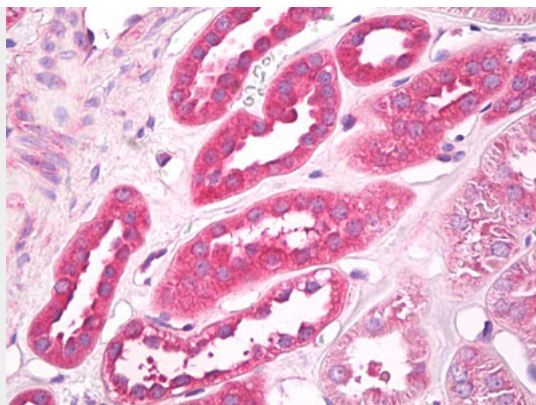
Provided below are standard protocols that you may find useful for product applications.

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

EIF3G Antibody (aa200-250) - Images



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



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).
Chen W.,et al.Submitted (SEP-1998) to the EMBL/GenBank/DDBJ databases.
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).