

EIF3D mouse monoclonal antibody

Catalog: MB4033

Host: Mouse

Reactivity: Human, Mouse, Rat

BackGround:

Translation initiation requires a set of factors to facilitate the association of the 40S ribosomal subunit with mRNA. The eIF4F complex, consisting of eIF4E, eIF4A, and eIF4G, binds to the 5' cap structure of mRNA. eIF4F and eIF4B unwind the secondary structure of mRNA at its 5' untranslated region. The 40S ribosomal subunit, along with some initiation factors including eIF3, then binds to the 5' mRNA cap and searches along the mRNA for the initiation codon. eIF3 is a large translation initiation complex with 10 to 13 different subunits. eIF3A, eIF3B, eIF3C, eIF3E, eIF3F, and eIF3H are the core subunits critical for the function of this complex. eIF3 physically interacts with eIF4G, which may be responsible for the association of the 40S ribosomal subunit with mRNA. eIF3D is another subunit of the eIF3 protein complex. It binds to the 5' cap structure of a subset of mRNAs. This eIF3D-mRNA interaction is required for the translation initiation complex formation on eIF3-specialized mRNAs. Studies found that eIF3D is activated under metabolic stress by decreased phosphorylation near its cap-binding pocket. The translation adaptation mediated by eIF3D is necessary for cell survival during glucose deprivation.

Product:

1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

~ 65 kDa

Swiss-Prot:

O15371

Purification&Purity:

The antibody was affinity-purified from mouse ascites fluids or tissue culture supernatant by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB 1:2000, IHC 1:150

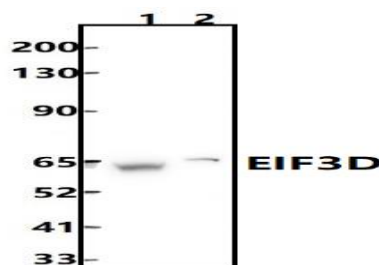
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Isotype:

IgG1

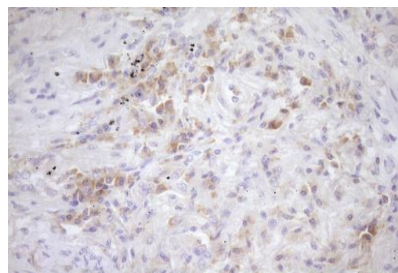
DATA:



Western blot (WB) analysis of EIF3D mouse monoclonal antibody at 1:500 dilution

Lane1:U-87MG whole cell lysate(30ug)

Lane2:HeLa whole cell lysate(30ug)



Immunohistochemical staining of paraffin-embedded Carcinoma of Human lung tissue using anti-EIF3D mouse monoclonal antibody.

(Heat-induced epitope retrieval by Tris-EDTA, pH8.0) (1:150)

Note:

For research use only, not for use in diagnostic procedure.

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