eIF2α (2E4) monoclonal antibody

Catalog: MB0174 Host: Mouse Reactivity: Human,Mouse,Rat

BackGround:

eIF2α, also known as EIF2S1 or EIF2, is a 315 amino acid subunit of the eukaryotic initiation complex that functions to bind tRNA to the 40S ribosomal subunit (in a GTP-dependent manner), thereby initiating translation. In addition, the phosphorylation state of eIF2α controls the rate of tRNA translation. When eIF2α is not phosphorylated, translation occurs at a normal rate. However, upon phosphorylation by one of several kinases, eIF2α is stabilized, thus preventing the GDP/GTP exchange reaction and slowing translation.

Product:

Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50%,glycerol

Molecular Weight:

Predicted band size:38KDa

Observed band size:38KDa

Swiss-Prot:

P05198

Purification&Purity:

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

Applications:

WB: 1:1000

IF: 1:50~200

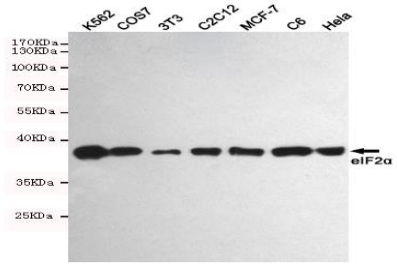
Storage&Stability:

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

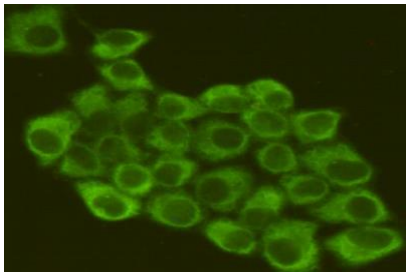
Specificity:

This antibody detects endogenous levels of eIF2α and does not cross-react with related proteins.

DATA:



Western blot detection of eIF2α in K562,COS7,3T3, C2C12,MCF-7,C6 and Hela cell lysates using eIF2α mouse mAb (1:1000 diluted).



Immunofluorescent analysis of Hela cells fixed by anhydrous methanol for 2 h at -20℃ and using anti-eIF2 α mouse mAb (dilution 1:200).

Note:

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

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