

## eIF2 $\alpha$ (2E4) monoclonal antibody

Catalog: MB0174

Host: Mouse

Reactivity: Human, Mouse, Rat

### BackGround:

eIF2 $\alpha$ , 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 eIF2 $\alpha$  controls the rate of tRNA translation. When eIF2 $\alpha$  is not phosphorylated, translation occurs at a normal rate. However, upon phosphorylation by one of several kinases, eIF2 $\alpha$  is stabilized, thus preventing the GDP/GTP exchange reaction and slowing translation.

### Product:

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

### 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

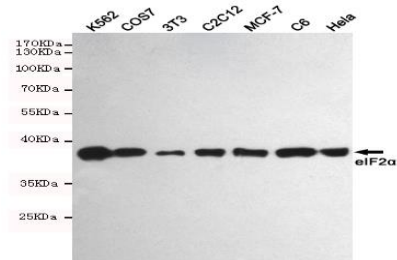
### Storage&Stability:

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

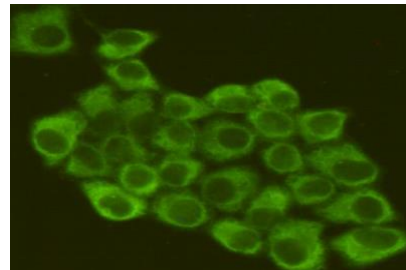
### Specificity:

This antibody detects endogenous levels of eIF2 $\alpha$  and does not cross-react with related proteins.

### DATA:



Western blot detection of eIF2 $\alpha$  in K562, COS7, 3T3, C2C12, MCF-7, C6 and HeLa cell lysates using eIF2 $\alpha$  mouse mAb (1:1000 diluted).



Immunofluorescent analysis of HeLa cells fixed by anhydrous methanol for 2 h at -20 °C and using anti-eIF2 $\alpha$  mouse mAb (dilution 1:200).

### Note:

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

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