

## EIF2S1 (Phospho-S51) Rabbit monoclonal antibody

Catalog: MB66302

Host: Rabbit

Reactivity: Human, Mouse, Rat

### BackGround:

Phosphorylation of the eukaryotic initiation factor 2 (eIF2)  $\alpha$  subunit is a well-documented mechanism to downregulate protein synthesis under a variety of stress conditions. eIF2 binds GTP and Met-tRNA<sub>i</sub> and transfers Met-tRNA to the 40S subunit to form the 43S preinitiation complex. eIF2 promotes a new round of translation initiation by exchanging GDP for GTP, a reaction catalyzed by eIF2B. Kinases that are activated by viral infection (PKR), endoplasmic reticulum stress (PERK/PEK), amino acid deprivation (GCN2), or heme deficiency (HRI) can phosphorylate the  $\alpha$  subunit of eIF2. This phosphorylation stabilizes the eIF2-GDP-eIF2B complex and inhibits the turnover of eIF2B. Induction of PKR by IFN- $\gamma$  and TNF- $\alpha$  induces potent phosphorylation of eIF2 $\alpha$  at Ser51.

### Product:

Liquid in 50mM Tris-Glycine (pH 7.4), 0.15M NaCl, 50% Glycerol, 0.01% Sodium azide and 0.05% BSA.

### Molecular Weight:

~ 42 kDa

### Swiss-Prot:

P05198

### Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

### Applications:

WB (1/500 - 1/1000)

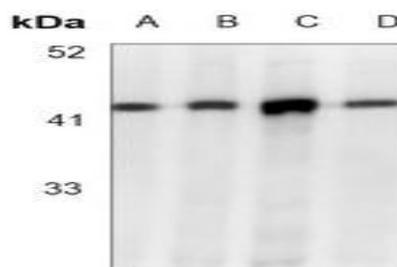
### Storage&Stability:

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

### Specificity:

Recognizes endogenous levels of EIF2S1 (pS51) protein.

### DATA:



Western blot analysis of EIF2S1 (pS51) expression in K562 (A), C6 (B), NIH3T3 (C), HeLa (D) whole cell lysates.

### Note:

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

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