

EIF2S1

Reactivity: Human Mouse

Tested applications: WB IHC IF IP FC

Recommended Dilution: WB 1:500 - 1:1000 IHC 1:50 - 1:100 IF 1:20 - 1:50 IP 1:20 - 1:50

FC 1:20 - 1:50

Calculated MW: 36kDa

Observed MW: Refer to Figures

Immunogen:

Recombinant Protein of human EIF2S1

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Concentration:

j

Synonym:

EIF2S1; EIF-2; EIF-2A; EIF-2alpha; EIF2; EIF2A ;

Catalog #: A0764

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID: 1965

Isotype: IgG

Swiss Prot: P05198

Purity: Affinity purification

For research use only.

Background:

Phosphorylation of the eukaryotic initiation factor 2 (eIF2) subunit is a well-documented mechanism to downregulate protein synthesis under a variety of stress conditions. eIF2 binds GTP and Met-tRNAⁱ and transfers Met-tRNA to the 40S subunit to form the 43S preinitiation complex (1,2). eIF2 promotes a new round of translation initiation by exchanging GDP for GTP, a reaction catalyzed by eIF2B (1,2). Kinases that are activated by viral infection (PKR), endoplasmic reticulum stress (PERK/PEK), amino acid deprivation (GCN2), or heme deficiency (HRI) can phosphorylate the subunit of eIF2 (3,4). This phosphorylation stabilizes the eIF2-GDP-eIF2B complex and inhibits the turnover of eIF2B. Induction of PKR by IFN- and TNF- induces potent phosphorylation of eIF2 at Ser51 (5,6).

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