

Product datasheet for TA375800S

elF2 alpha (EIF2S1) Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: ICC/IF, IP, WB

Recommended Dilution: WB,1:1000 - 1:2000

IHC,1:50 - 1:200 IP,1:50 - 1:100

Reactivity: Human, Mouse, Rat

Modifications: Phospho S51

Host: Rabbit Isotype: IgG

Clonality: Polyclonal

Immunogen: A synthetic phosphorylated peptide around S51 of human eIF2α (NP_004085.1).

Formulation: Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.

Concentration: lot specific

Purification: Affinity purification

Conjugation: Unconjugated

Storage: Store at -20°C. Avoid freeze / thaw cycles.

Stability: Shelf life: one year from despatch.

Predicted Protein Size: 36kDa

Gene Name: eukaryotic translation initiation factor 2 subunit alpha

Database Link: Entrez Gene 1965 Human

P05198

Background: The translation initiation factor EIF2 catalyzes the first regulated step of protein synthesis

initiation, promoting the binding of the initiator tRNA to 40S ribosomal subunits. Binding occurs as a ternary complex of methionyl-tRNA, EIF2, and GTP. EIF2 is composed of 3 nonidentical subunits, the 36-kD EIF2-alpha subunit (EIF2S1), the 38-kD EIF2-beta subunit (EIF2S2; MIM 603908), and the 52-kD EIF2-gamma subunit (EIF2S3; MIM 300161). The rate of formation of the ternary complex is modulated by the phosphorylation state of EIF2-alpha

(Ernst et al., 1987 [PubMed 2948954]).[supplied by OMIM, Feb 2010]



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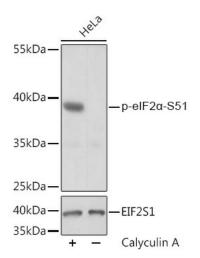
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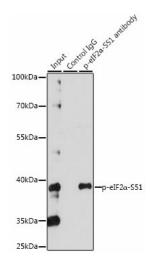
Synonyms:

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

Product images:



Western blot analysis of extracts of HeLa cells, using Phospho-eIF2α-S51 pAb ([TA375800]) at 1:2000 dilution or EIF2S1 antibody. HeLa cells were treated by Calyculin A (100nM) for 30 minutes after serum-starvation overnight. |Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. |Lysates/proteins: 25ug per lane. |Blocking buffer: 3% BSA. |Detection: ECL Basic Kit. |Exposure time: 1s.



Immunoprecipitation analysis of 200ug extracts of HeLa cells, using 3 ug Phospho-elF2 α -S51 pAb ([TA375800]). Western blot was performed from the immunoprecipitate using Phospho-elF2 α -S51 pAb ([TA375800]) at a dilition of 1:1000. HeLa cells were treated by Calyculin A (100 nM) at 37°C for 30 minutes after serum-starvation overnight.