Phospho-eIF2Alpha-S51 Rabbit Polyclonal Antibody

CABP0745

Product Information

Size:

20uL, 50uL, 100uL, 200uL

Observed MW:

38kDa

Calculated MW:

36kDa

Applications:

WB IP

Reactivity:

Human

Antibody Information

Recommended dilutions:
WB 1:1000 - 1:2000 IP 1:50 - 1:100

Source:
Rabbit

Isotype:
IgG

Purification:
Affinity purification

Protein 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]

Immunogen information

Gene ID:
1965

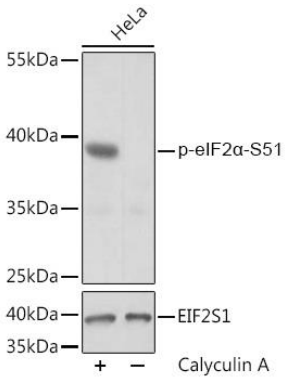
Uniprot
P05198

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

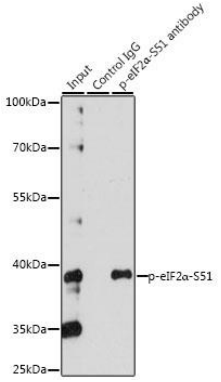
Immunogen:
A synthetic phosphorylated peptide around S51 of human eIF2Alpha (NP_004085.1).

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

Product Images



Western blot analysis of extracts of HeLa cells, using Phospho-eIF2a-S51 pAb (CABP0745) at 1:2000 dilution or EIF2S1 antibody (CAB0764).HeLa cells were treated by Calyculin A (100nM) for 30 minutes after serum-starvation overnight. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (CABS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% BSA. Detection: ECL Basic Kit (CABM00020). Exposure time: 1s.



Immunoprecipitation analysis of 200ug extracts of HeLa cells, using 3 ug Phospho-eIF2a-S51 pAb (CABP0745). Western blot was performed from the immunoprecipitate using Phospho-eIF2a-S51 pAb (CABP0745) 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.

