Leader in Biomolecular Solutions for Life Science

Phospho-eIF2α-S51 Rabbit pAb

Catalog No.: AP0745

6 Publications

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Basic Information

Observed MW
38kDa

Calculated MW
36kDa

Category
Polyclonal Antibodies

Applications
WB, IP, ELISA

Cross Reactivity
Human, Mouse, Rat

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]).

Recommended Dilutions

WB	1:1000 - 1:5000

IP
0.5μg-4μg antibody for 200μg-400μg extracts of whole cells

ELISA
Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
1965

Swiss-Prot
P05198

Immunogen
Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms
EIF2; EIF-2; EIF2A; EIF-2A; EIF-2alpha; Phospho-eIF2α-S51

Contact

400-999-6126
cn.market@abclonal.com.cn
www.abclonal.com.cn

Product Information

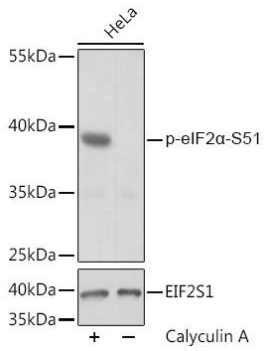
Source
Rabbit

Isotype
IgG

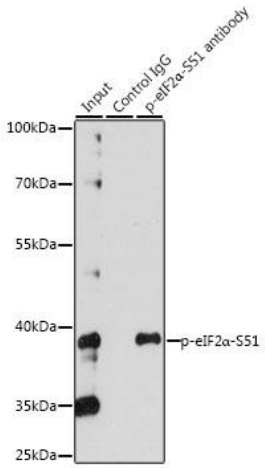
Purity
Affinity purification

Storage
Store at -20℃
Buffer: PBS, pH 7.3, containing 50% glycerol. Preserved with Proclin300 or sodium azide. May contain 0.05% BSA as specified on the Certificate of Analysis.

Validation Data



Western blot analysis of lysates from HeLa cells using Phospho-eIF2α-S51 Rabbit pAb (AP0745) incubated overnight at 4℃. HeLa cells were treated with Calyculin A (100nM) for 30 minutes after serum-starvation overnight.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1: 10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% BSA.
Detection: ECL Basic Kit (RM00020).
Exposure time: 1 s.



Immunoprecipitation of Phospho-eIF2α-S51 from 200 µg extracts of HeLa cells treated with Calyculin A (100 nM, 30 minuteswas) was performed using 3 µg of Phospho-eIF2α-S51 Rabbit pAb (AP0745) .Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using Phospho-eIF2α-S51 Rabbit pAb (AP0745) at a dilution of 1:1000.