

Phospho-eIF2 α -S51 Rabbit pAb

Catalog No.: AP0745

6 Publications

Basic Information

Observed MW

38kDa

Calculated MW

36kDa

Category

Primary antibody

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 - 1:2000

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

ELISA Recommended starting
concentration is 1 μ g/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-eIF2 α -S51

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

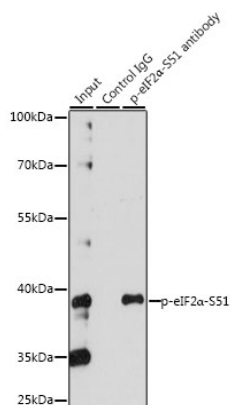
Affinity purification

Storage

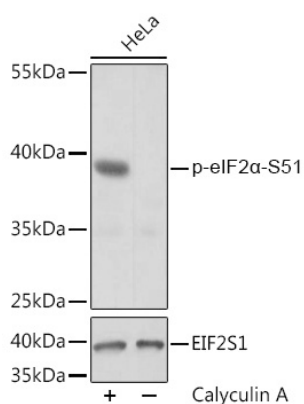
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.09% Sodium azide, 50% glycerol, pH7.3.

Validation Data



Immunoprecipitation analysis of 200 µg extracts of HeLa cells, using 3 µg Phospho-eIF2α-S51 pAb (AP0745). Western blot was performed from the immunoprecipitate using Phospho-eIF2α-S51 pAb (AP0745) at a dilution of 1:1000. HeLa cells were treated with Calyculin A (100 nM) at 37°C for 30 minutes after serum-starvation overnight.



Western blot analysis of lysates from HeLa cells, using Phospho-eIF2α-S51 Rabbit pAb (A0764). 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: 25µg per lane. Blocking buffer: 3% BSA. Detection: ECL Basic Kit (RM00020). Exposure time: 1s.