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# Phospho-eIF2α-S51 Rabbit mAb

**Catalog No.: AP0692** Recombinant 46 Publications

## Basic Information

**Observed MW**
36 kDa

**Calculated MW**
36 kDa

**Category**
Primary antibody

**Applications**
WB,ELISA

**Cross-Reactivity**
Human, Mouse, Rat

**CloneNo number**
ARC0130

## 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** | 1:2000 - 1:10000 |
| **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


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## Product Information

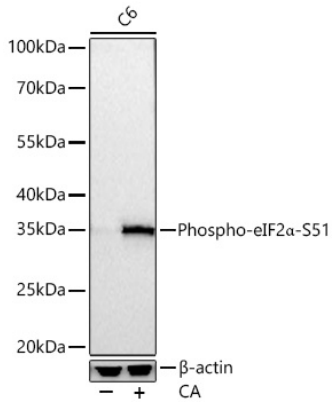
**Source**
Rabbit

**Isotype**
IgG

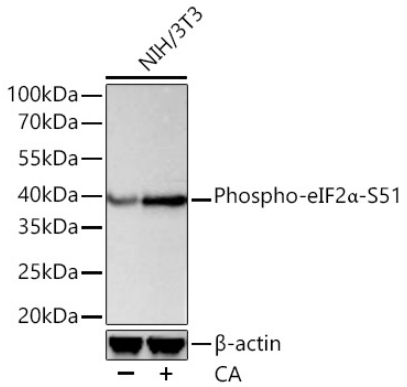
**Purification**
Affinity purification

**Storage**
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.09% sodium azide,0.05% BSA,50% glycerol,pH7.3.

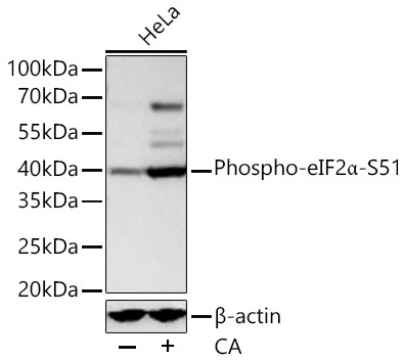
## Validation Data




Western blot analysis of lysates from C6 cells using Phospho-eIF2α-S51 Rabbit mAb (AP0692) at 1:10000 dilution incubated overnight at 4℃. C6 cells were treated with CA (100 nM) at 37℃ for 30 minutes after serum-starvation overnight.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 30 μg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 30 s.




Western blot analysis of lysates from NIH/3T3 cells using Phospho-eIF2α-S51 Rabbit mAb (AP0692) at 1:5000 dilution incubated at room temperature for 1.5 hours. NIH/3T3 cells were treated with CA (100 nM) at 37℃ for 30 minutes after serum-starvation overnight.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 30 μg per lane.
Blocking buffer: 3 % nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 20 s.




Western blot analysis of lysates from HeLa cells using Phospho-eIF2α-S51 Rabbit mAb (AP0692) at 1:5000 dilution incubated at room temperature for 1.5 hours. HeLa cells were treated with CA (100 nM) at 37℃ for 30 minutes after serum-starvation overnight.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 30 μg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 45 s.