

# Phospho-eIF2 $\alpha$ -S51 Rabbit mAb

Catalog No.: AP0692 **Recombinant** **54 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** 1:3000 - 1:18000

**ELISA** Recommended starting concentration is 1  $\mu$ 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 $\alpha$ -S51

## Contact

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## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

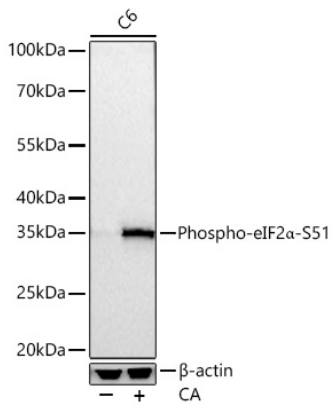
Affinity purification

### Storage

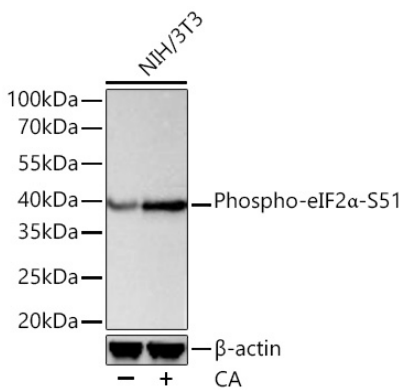
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.09% sodium azide, 0.05% BSA, 50% glycerol, pH7.3.

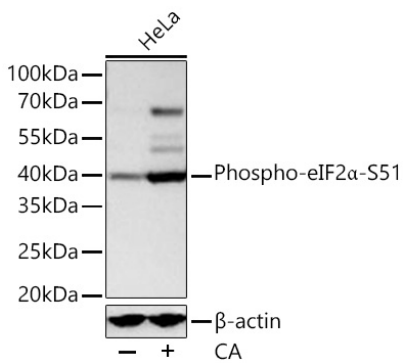
## Validation Data



Western blot analysis of lysates from C6 cells using Phospho-eIF2α-S51 Rabbit mAb (AP0692) at 1:10000 dilution incubated overnight at 4°C. C6 cells were treated with CA (100 nM) at 37°C 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°C 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°C 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.