

# Phospho-eIF2 $\alpha$ -S49 Rabbit pAb

Catalog No.: AP0341 **4 Publications**

## Basic Information

### Observed MW

40kDa

### Calculated MW

36kDa

### Category

Primary antibody

### Applications

WB, IHC-P

### 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 1:500 - 1:2000

IHC-P 1:50 - 1:100

## Immunogen Information

### Gene ID

1965

### Swiss Prot

P05198

### Immunogen

A phospho specific peptide corresponding to residues surrounding S49 of human EIF2S1

### Synonyms

EIF2; EIF-2; EIF2A; EIF-2A; EIF-2alpha; Phospho-eIF2 $\alpha$ -S49

## Contact

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## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

Affinity purification

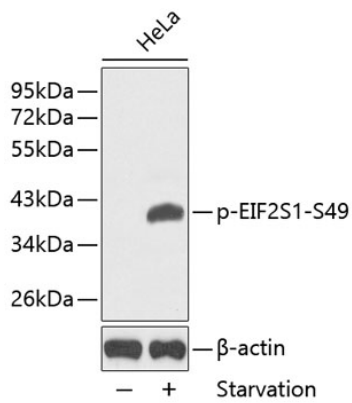
### Storage

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

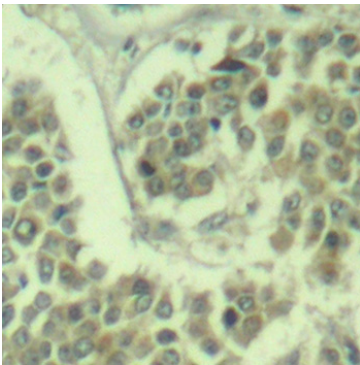
Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH 7.3.

## Validation Data

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Western blot analysis of lysates from HeLa cells, using Phospho-eIF2 $\alpha$ -S49 Rabbit pAb (AP0341).  
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25 $\mu$ g per lane.  
Blocking buffer: 3% BSA.



Immunohistochemistry analysis of paraffin-embedded Human breast carcinoma using Phospho-eIF2 $\alpha$ -S49 Rabbit pAb (AP0341). Perform microwave antigen retrieval with 10 mM Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.