# Recombinant Phospho-eIF2α (Ser51) Monoclonal Antibody

**catalog number: AN300145L**

**Note:** *Centrifuge before opening to ensure complete recovery of vial contents.*

## Description

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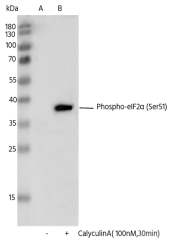
|---|---|
| **Reactivity** | Human |
| **Immunogen** | A synthetic phosphopeptide corresponding to residues around Ser51 of human Phospho-eIF2α. |
| **Host** | Rabbit |
| **Isotype** | IgG |
| **Clone** | 4B11 |
| **Purification** | Protein A |
| **Buffer** | 10 mM sodium HEPES, 150 mM NaCl, 100 μg/mL protein protectant, 50% glycerol, pH 7.5 |

## Applications — Recommended Dilution

**WB** 1:1000-1:10000




Western blot analysis of extracts from serum-starved NIH-3T3, untreated(line A) or treated with CalyculinA( 100nM, 30min; +)(line B), using Phospho-eIF2α (Ser51) Monoclonal Antibody at 1:1000 dilution.

**Observed-MW:36 kDa**

**Calculated-MW:36 kDa**

## Preparation & Storage

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|---|---|
| **Storage** | This antibody can be stored at 2℃-8℃ for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20℃ to -80℃. Preservative-Free. Avoid repeated freeze-thaw cycles. |
| **Shipping** | Ice bag |

## 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]).[supplied by OMIM, Feb 2007]


Toll-free: 1-888-852-8623
Tel: 1-832-243-6086
Fax: 1-832-243-6017
Web:www.elabscience.com
Email:techsupport@elabscience.com