Recombinant Phospho-eIF2α (Ser51) Monoclonal Antibody

catalog number: AN300145L

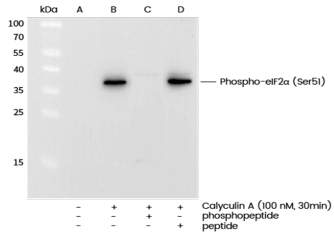
Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description

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

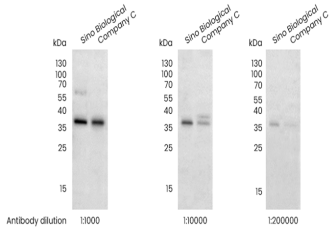
Data



Western blot analysis of extracts from serum-starved Hela, untreated (line A); treated with Calyculin A (100nM, 30 min), without peptide (line B) or antigen-specific phosphopeptide (line C) or antigen-specific peptide (line D) using Phospho-eIF2α (Ser51) Monoclonal Antibody at 1:1000 dilution.

Observed-MW:36 kDa

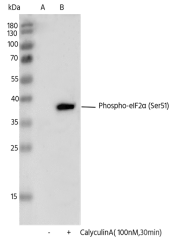
Calculated-MW:36 kDa



Western blot analysis of extracts from serum-starved Hela, treated with Calyculin A (100 nM, 30 min), using Phospho-eIF2α (Ser51) Monoclonal Antibody and other brands' antibodies (company C) at dilution of 1:1000, 1:10000 and 1:200000.

Observed-MW:36 kDa

Calculated-MW:36 kDa



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

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]

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