

Nur für Forschungszwecke

Phospho-EIF2S1 (Ser51) Monoklonaler Antikörper



Katalog-Nr.: 68023-1-Ig

Allgemeine Informationen

Katalog-Nr.: 68023-1-Ig	GenBank-Zugangsnummer: NM_004094	Reinigungsmethode: Protein-G-Reinigung
Größe: 100ul, Konzentration: 1000 µg/ml von 1965 Nanodrop;	GeneID (NCBI): 1965	CloneNo.: 1A4A11
Wirt: Maus	Vollständiger Name: eukaryotic translation initiation factor 2, subunit 1 alpha, 35kDa	Empfohlene Verdünnungen: WB 1:5000-1:50000
Isotyp: IgG1	Berechnete Masse: 36 kDa	
	Beobachtete Masse: 36 kDa	

Anwendungen

Geprüfte Anwendungen:

FC, WB, ELISA

Getestete Reaktivität:

Human, Maus, Ratte

Positivkontrollen:

WB: PC-3-Zellen, HeLa-Zellen, Mit Calyculin A behandelte HEK-293-Zellen, Mit Calyculin A behandelte HeLa-Zellen, mit Calyculin A behandelte HSC-T6-Zellen, mit Calyculin A behandelte NIH/3T3-Zellen, Mit Calyculin A behandelte PC-3-Zellen, NIH/3T3-Zellen

Hintergrundinformationen

EIF2S1 is one subunit of the translation initiation factor EIF2, which catalyzes the first regulated step of protein synthesis initiation, promoting the binding of the initiator tRNA to 40S ribosomal subunits. This complex binds to a 40S ribosomal subunit, followed by mRNA binding to form a 43S preinitiation complex. Junction of the 60S ribosomal subunit to form the 80S initiation complex is preceded by hydrolysis of the GTP bound to eIF-2 and release of an eIF-2-GDP binary complex. In order for eIF-2 to recycle and catalyze another round of initiation, the GDP bound to eIF-2 must exchange with GTP by way of a reaction catalyzed by eIF-2B. This phosphorylation stabilizes the eIF2-GDP-eIF2B complex and inhibits the turnover of eIF2B. Induction of PKR by IFN-γ and TNF-α induces potent phosphorylation of eIF2α at Ser51.

Lagerung

Lagerungsbedingungen:

Bei -20°C lagern. Nach dem Versand ein Jahr lang stabil

Lagerungspuffer:

PBS mit 0.02% Natriumazid und 50% Glycerin pH 7.3.

Aliquotieren ist nicht notwendig bei -20°C Lagerung

*** 20ul-Größen enthalten 0.1% BSA

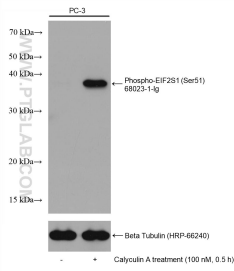
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free
in USA), or 1(312) 455-8498 (outside USA)

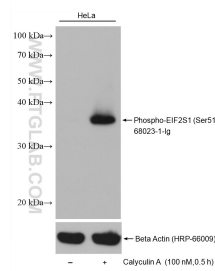
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Ausgewählte Validierungsdaten



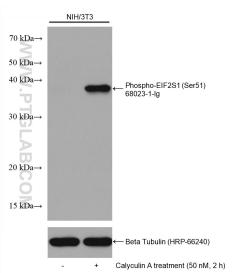
Non-treated and Calyculin A treated PC-3 cells were subjected to SDS PAGE followed by western blot with 68023-1-Ig (Phospho-EIF2S1 (Ser51) antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Beta Tubulin (HRP-66240) antibody as loading control.



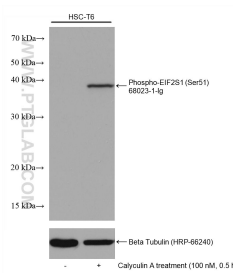
Non-treated and Calyculin A treated HeLa cells were subjected to SDS PAGE followed by western blot with 68023-1-Ig (Phospho-EIF2S1 (Ser51) antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Beta Actin (HRP-66009) antibody as loading control.



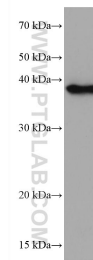
1X10⁶ PC-3 cells untreated (dashed lines) or treated with Calyculin A (red) were intracellularly stained with 0.5 ug Anti-Human Phospho-EIF2S1 (Ser51) (68023-1-Ig, Clone:1A4A11) and Coralite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000, or 0.5 ug Control Antibody (blue). Cells were fixed with 4% PFA and permeabilized with 90% MeOH.



Non-treated and Calyculin A treated NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 68023-1-Ig (Phospho-EIF2S1 (Ser51) antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Beta Tubulin (HRP-66240) antibody as loading control.



Non-treated and Calyculin A treated HSC-T6 cells were subjected to SDS PAGE followed by western blot with 68023-1-Ig (Phospho-EIF2S1 (Ser51) antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Beta Tubulin (HRP-66240) antibody as loading control.



Calyculin A treated HEK-293 cells were subjected to SDS PAGE followed by western blot with 68023-1-Ig (Phospho-EIF2S1 (Ser51) antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.