À des fins de recherche uniquement

Anticorps Monoclonal anti-Phospho-EIF2S1 (Ser51)

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Numéro de catalogue:68023-1-Ig

Informations de base

Numéro de catalogue:
68023-1-Ig

Taille:
100ul , Concentration: 1000 μg/ml by Nanodrop;

Hôte:
Mouse

Isotype:
IgG1

Numéro d'acquisition GenBank:
NM_004094

Identification du gène (NCBI):
1965

Nom complet:
eukaryotic translation initiation factor 2, subunit 1 alpha, 35kDa

MW calculé
36 kDa

MW observés:
36 kDa

Méthode de purification:
Purification par protéine G

CloneNo.:
1A4A11

Dilutions recommandées:
WB 1:5000-1:50000

Applications

Applications testées:
FC, WB, ELISA

Spécificité de l'espèce:
Humain, rat, souris

Contrôles positifs:

WB : cellules PC-3, cellules HEK-293 traitées à la calyculine A, cellules HeLa, cellules HeLa traitées à la calyculine A, cellules HSC-T6, cellules HSC-T6 traitées à la calyculine A, cellules NIH/3T3, cellules NIH/3T3 traitées à la calyculine A, cellules PC-3 traitées à la calyculine A

Informations générales

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.

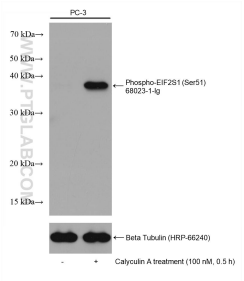
Stockage

Stockage:
Stocker à -20°C. Stable pendant un an après l'expédition.
Tampon de stockage:
PBS avec azoture de sodium à 0,02 % et glycérol à 50 % pH 7,3
L'aliquotage n'est pas nécessaire pour le stockage à -20C

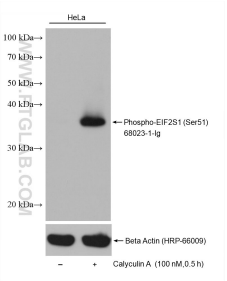
***** Les 20ul contiennent 0,1% de BSA.**

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

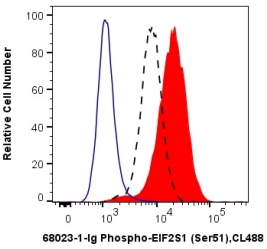
Données de validation sélectionnées



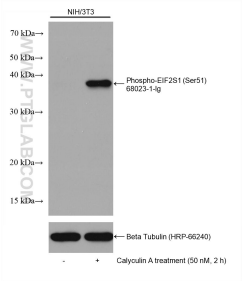
Non-treated and Calyculin A treated PC-3 cells were subjected to SDS PAGE followed by western blot with 68023-1-Ig (Phospho-EIF2S1 (Ser51) antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Beta Tubulin (HRP-66240) antibody as loading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



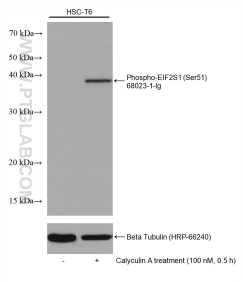
Non-treated and Calyculin A treated HeLa cells were subjected to SDS PAGE followed by western blot with 68023-1-Ig (Phospho-EIF2S1 (Ser51) antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Beta Actin (HRP-66009) antibody as loading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



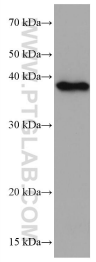
1X10^6 PC-3 cells untreated (dashed lines) or treated with Calyculin A (red) were intracellularly stained with 0.5 ug Anti-Human Phospho-EIF2S1 (Ser51) (68023-1-Ig, Clone:1A4A11) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000, or 0.5 ug Control Antibody (blue). Cells 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.