

À des fins de recherche uniquement

Anticorps Recombinant de lapin anti-Phospho-AKT1 (Ser473)



Numéro de catalogue: 80462-1-RR

1 Publications

Informations de base

Numéro de catalogue: 80462-1-RR	Numéro d'acquisition GenBank: NM_005163	Méthode de purification: Purification par protéine A
Taille: 100ul , Concentration: 500 µg/ml by Nanodrop;	Identification du gène (NCBI): 207	CloneNo.: 2M10
Hôte: Lapin	Nom complet: v-akt murine thymoma viral oncogene homolog 1	Dilutions recommandées: WB 1:2000-1:10000
Isotype: IgG	MW observés: 56-62 kDa	

Applications

Applications testées:
FC, WB, ELISA

Demandes citées:
WB

Spécificité de l'espèce:
Humain, souris

Espèces citées:
Humain

Contrôles positifs:

WB : cellules HeLa, cellules HEK-293, cellules HEK-293 traitées à la calyculine A, cellules HEK-293T, cellules HEK-293T traitées à l'IGF-1, cellules HeLa traitées à la calyculine A, cellules NIH/3T3, cellules NIH/3T3 traitées à la calyculine A

Informations générales

AKT is a serine/threonine kinase and it participates in the key role of the PI3K signaling pathway. Phosphatidylinositol-3 kinase (PI3K) is the key regulator of AKT activation. The recruitment of inactive AKT protein to PIP3-rich areas of the plasma membrane results in a conformational change that exposes the activation loop of AKT. AKT's activating kinase, phosphoinositide-dependent protein kinase (PDK1), is also recruited to PIP3 microdomains. PDK1 phosphorylates AKT on threonine 308 (Thr308) of the exposed activation loop, activating AKT and leading to a second phosphorylation of AKT at serine 473 (Ser473) by a kinase presumed to be mTORC2 that further potentiates kinase activity. Active AKT will phosphorylate various downstream protein targets that control cell growth and translational control and act to suppress apoptosis. (PMID: 31594388, PMID: 30808672). 80462-1-RR specifically recognizes AKT1 phosphorylated at Ser473.

Publications notables

Autrice	Pubmed ID	Journal	Application
Kun Wang	35415320	ACS Omega	WB

Stockage

Stockage:

Stocker à -20 °C

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.

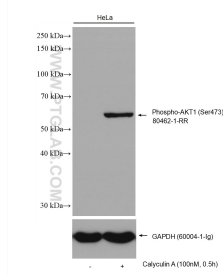
For technical support and original validation data for this product please contact:

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

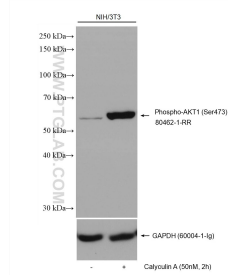
E: proteintech@ptglab.com
W: ptglab.com

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

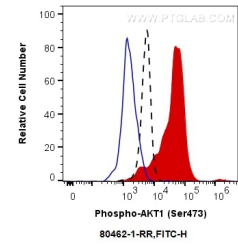
Données de validation sélectionnées



Non-treated and Calyculin A treated HeLa cells were subjected to SDS PAGE followed by western blot with 80462-1-RR (Phospho-AKT1 (Ser473) antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with GAPDH antibody as loading control.



Non-treated and Calyculin A treated NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 80462-1-RR (Phospho-AKT1 (Ser473) antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with GAPDH antibody as loading control.



1×10^6 NIH/3T3 cells untreated (dashed line) or treated with Calyculin A (red) were intracellularly stained with 0.5 μ g Anti-Human Phospho-AKT1 (Ser473) (80462-1-RR, Clone:2M10) and CoraLite[®] 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000, or 0.5 μ g Control Antibody (blue). Cells were fixed with 4% PFA and permeabilized with 90% MeOH.