À des fins de recherche uniquement

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

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Antibodies | ELISA kits | Proteins
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Numéro de catalogue:80455-1-RR 35 Publications

Informations de base

Numéro de catalogue:
80455-1-RR

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

Hôte:
Lapin

Isotype:
IgG

Numéro d'acquisition GenBank:
NM_005163

Identification du gène (NCBI):
207

Nom complet:
v-akt murine thymoma viral oncogene homolog 1

MW observés:
58 kDa

Méthode de purification:
Purification par protéine A

CloneNo.:
2E17

Dilutions recommandées:
WB 1:5000-1:50000

Applications

Applications testées:
FC, WB, ELISA

Demandes citées:
IF, IHC, WB

Spécificité de l'espèce:
Humain

Espèces citées:
Humain, rat, souris

Contrôles positifs:

WB : cellules HEK-293, cellules HEK-293 traitées à la calyculine A, cellules HEK-293T, cellules HEK-293T traitées à l'IGF-1, cellules HeLa, cellules HeLa 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)

Publications notables

Autrice	Pubmed ID	Journal	Application
Li Wu	36184060	Vascul Pharmacol	WB
Feixue Liu	36113268	Ecotoxicol Environ Saf	WB
Huangrong Zhu	36120586	Front Cell Dev Biol	IF

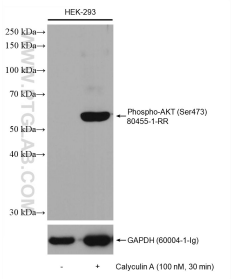
Stockage

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

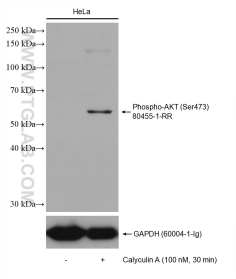
***** Les 20ul contiennent 0,1% de BSA.**

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

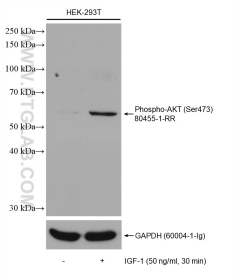
Données de validation sélectionnées



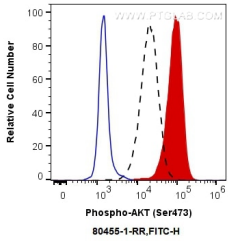
Non-treated and Calyculin A treated HEK-293 cells were subjected to SDS PAGE followed by western blot with 80455-1-RR (Phospho-AKT (Ser473) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with GAPDH antibody as loading control.



Non-treated and Calyculin A treated HeLa cells were subjected to SDS PAGE followed by western blot with 80455-1-RR (Phospho-AKT (Ser473) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with GAPDH antibody as loading control.



Non-treated and IGF-1 treated HEK-293T cells were subjected to SDS PAGE followed by western blot with 80455-1-RR (Phospho-AKT (Ser473) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with GAPDH antibody as loading control.



1X10^6 HEK-293 cells untreated (dashed lines) or treated with Calyculin A (red) were intracellularly stained with 0.25 ug Anti-Human Phospho-AKT (Ser473) (80455-1-RR, Clone:2E17) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000, or 0.25 ug Control Antibody (blue). Cells were fixed with 4% PFA and permeabilized with 80% MeOH.