

Nur für Forschungszwecke

Phospho-AKT1 (Ser473) Rekombinanter Antikörper



Katalog-Nr.: 80462-1-RR

1 Publikationen

Allgemeine Informationen

Katalog-Nr.: 80462-1-RR	GenBank-Zugangsnummer: NM_005163	Reinigungsmethode: Protein-A-Reinigung
Größe: 100ul , Konzentration: 500 µg/ml von Nanodrop;	GeneID (NCBI): 207	CloneNo.: 2M10
Wirt: Kaninchen	Vollständiger Name: v-akt murine thymoma viral oncogene homolog 1	Empfohlene Verdünnungen: WB 1:2000-1:10000
Isotyp: IgG	Beobachtete Masse: 56-62 kDa	

Anwendungen

Geprüfte Anwendungen:

FC, WB, ELISA

In Publikationen genannte Anwendungen:

WB

Getestete Reaktivität:

Human, Maus

Zitierte Arten:

Human

Positivkontrollen:

WB : HeLa-Zellen, HEK-293T-Zellen, HEK-293-Zellen, Mit Calyculin A behandelte HEK-293-Zellen, Mit Calyculin A behandelte HeLa-Zellen, mit Calyculin A behandelte NIH/3T3-Zellen, mit IGF-1 behandelte HEK-293T-Zellen, NIH/3T3-Zellen

Hintergrundinformationen

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.

Bemerkenswerte Veröffentlichungen

Verfasser	Pubmed ID	Journal	Anwendung
Kun Wang	35415320	ACS Omega	WB

Lagerung

Lagerungsbedingungen:

Bei -20°C lagern.

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

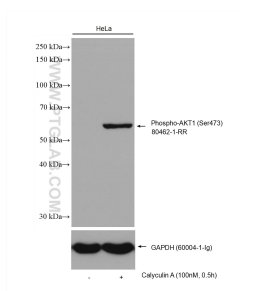
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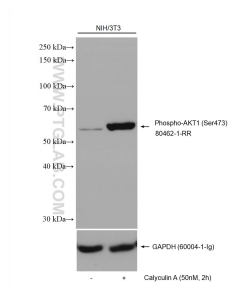
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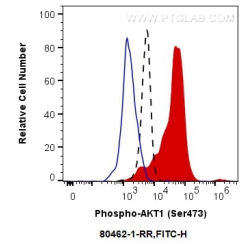
Ausgewählte Validierungsdaten



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.