

Nur für Forschungszwecke

Phospho-AKT (Ser473) Rekombinanter Antikörper



Katalog-Nr.: 80455-1-RR

20 Publikationen

Allgemeine Informationen

Katalog-Nr.: 80455-1-RR	GenBank-Zugangsnummer: NM_005163	Reinigungsmethode: Protein-A-Reinigung
Größe: 100ul, Konzentration: 1000 µg/ml von207 Nanodrop;	GeneID (NCBI): v-akt murine thymoma viral oncogene homolog 1	CloneNo.: 2E17
Wirt: Kaninchen	Vollständiger Name: v-akt murine thymoma viral oncogene homolog 1	Empfohlene Verdünnungen: WB 1:5000-1:50000
Isotyp: IgG	Beobachtete Masse: 58 kDa	

Anwendungen

Geprüfte Anwendungen:

FC, WB, ELISA

In Publikationen genannte Anwendungen:

IF, WB

Getestete Reaktivität:

Human

Zitierte Arten:

Human, Maus, Ratte

Positivkontrollen:

WB : HEK-293-Zellen, HEK-293T-Zellen, HeLa-Zellen, Mit Calyculin A behandelte HEK-293-Zellen, Mit Calyculin A behandelte HeLa-Zellen, mit IGF-1 behandelte HEK-293T-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)

Bemerkenswerte Veröffentlichungen

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

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

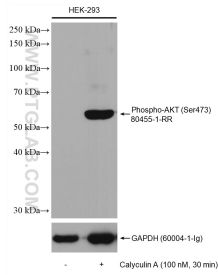
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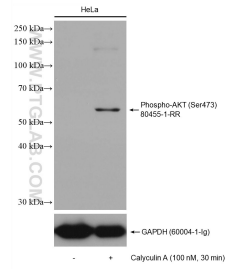
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W: ptglab.com

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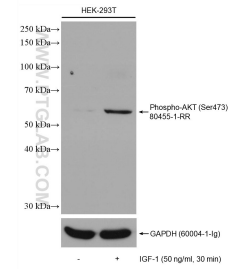
Ausgewählte Validierungsdaten



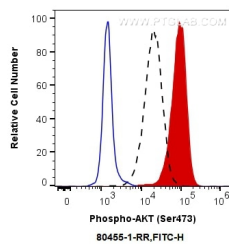
Non-treated and Calyculin A treated HEK-293 cells were subjected to SDS PAGE followed by western blot with 80455-1-RR (Phospho-AKT (Ser473) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with GAPDH antibody as loading control.



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.



1X10⁶ 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.