For Research Use Only

Phospho-AKT1 (Ser473) Recombinant antibody

Catalog Number:80462-1-RR

2 Publications

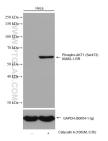


Basic Information	Catalog Number: 80462-1-RR	GenBank Accession Number NM_005163	er: Purification Method: Protein A purification
	Size: 100ul , Concentration: 1000 ug/ml by Nanodrop; Source: Rabbit Isotype: IgG	GeneID (NCBI):	CloneNo.:
			2M10
		UNIPROT ID:	Recommended Dilutions: WB 1:2000-1:10000
		P31749	WB 1:2000-1:10000
		Full Name: v-akt murine thymoma viral oncogene homolog 1	
		Applications	Tested Applications:
			B: HeLa cells, HEK-293T cells, HEK-293 cells,
			H/3T3 cells, IGF-1 treated HEK-293T cells, Calyculi reated HEK-293 cells, Calyculin A treated HeLa
Species Specificity: cells, Calyculin A treated NIH/3T3 cells			
human, mouse			
Cited Species:			
human, mouse			
Background Information	AKT is a serine/threonine kinase and Phosphatidylinositol-3 kinase (PI3K) to PIP3-rich areas of the plasma mem AKT. AKT's activating kinase, phosphor microdomains. PDK1 phosphorylates and leading to a second phosphorylate further potentiates kinase activity. Ac	is the key regulator of AKT brane results in a conforma- binositide-dependent protei AKT on threonine 308 (Thr3 tion of AKT at serine 473 (Se ttive AKT will phosphorylat and act to suppress apoptos	activation. The recruitment of inactive AKT protein ational change that exposes the activation loop of in kinase (PDK1), is also recruited to PIP3 08) of the exposed activation loop, activating AKT er473) by a kinase presumed to be mTORC2 that we various downstream protein targets that control
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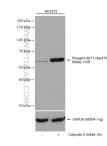
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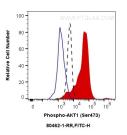
Selected Validation Data



Non-treated and Calyculin A treated HeLa cells were subjected to SDS PAGE followed by western blot with 80462-1-RR (Phospho-AKT (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-AKT (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.



1X10^6 NIH/3T3 cells untreated (dashed line) or treated with Calyculin A (red) were intracellularly stained with 0.5 ug 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 ug Control Antibody (blue). Cells were fixed with 4% PFA and permeabilized with 90% MeOH.