For Research Use Only

CoraLite®594-conjugated Phospho-AKT1 (Ser473) Recombinant antibody

Antibodies | ELISA kits | Proteins www.ptglab.com

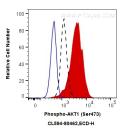
Catalog Number: CL594-80462

Basic Information	Catalog Number: CL594-80462	GenBank Accession Number: NM_005163	Purification Method: Protein A purification				
	Size: 1000 µg/ml	GenelD (NCBI): 207	CloneNo.: 2M10				
	Source: Rabbit Isotype: IgG	UNIPROT ID: P31749 Full Name: v-akt murine thymoma viral oncogene homolog 1 Observed MW: 56-62 kDa	Excitation/Emission maxima wavelengths: 588 nm / 604 nm				
				Applications	Tested Applications: FC (Intra)		
					Species Specificity: Human, mouse		
Background Information	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.						
Storage	Storage: Store at -20°C. Avoid exposur Storage Buffer: PBS with 50% Glycerol. 0.059	re to light. % Proclin300, 0.5% BSA, pH 7.3.					
	Aliquoting is unnecessary for						

For technical support and original validation data for this product please contact:T: 4006900926E: Proteintech-CN@ptglab.comW: ptgcn.com

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Selected Validation Data



1X10^6 NIH/3T3 cells untreated (dashed line) or treated with Calyculin A (red) were intracellularly stained with 0.25 ug Coralite®594 Anti-Human Phospho-AKT1 (Ser473) (CL594-80462, Clone:2M10) , or 0.25 ug Control Antibody (Blue). Cells were fixed with 4% PFA and permeabilized with 90% MeOH.