

For Research Use Only

CoraLite® Plus 488-conjugated Phospho-AKT (Thr308) Recombinant antibody

Catalog Number: CL488-81232-8



Basic Information

Catalog Number: CL488-81232-8	GenBank Accession Number: BC000479	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 5207	CloneNo.: 241845F1
Source: Rabbit	UNIPROT ID: P31749	Recommended Dilutions: FC (Intra): 0.25 ug per 10 ⁶ cells in a 100 µl suspension
Isotype: IgG	Full Name: v-akt murine thymoma viral oncogene homolog 1	Excitation/Emission maxima wavelengths: 493 nm / 522 nm
	Calculated MW: 56 kDa	
	Observed MW: 60 kDa	

Applications

Tested Applications: FC (Intra)	Positive Controls: FC (Intra) : Calyculin A treated HEK-293 cells,
Species Specificity: human	

Background Information

The serine-threonine kinase Akt, also known as protein kinase B (PKB), contributes to a broad range of cellular functions including cell survival, proliferation, gene expression and migration of cells of most lineages. AKT has a wide range of cellular substrates, and the oncogenicity of AKT arises from activation of both proliferative and anti-apoptotic signaling, thus making this kinase an attractive target for cancer therapy. Activation of mammalian AKT depends on its recruitment to the membrane through binding of phosphatidylinositol-3,4,5-trisphosphate (PIP3) to the PH domain of AKT, and subsequent phosphorylation at two key residues, Thr308 and Ser473, located at the catalytic domain and C-terminal regulatory domain, respectively. (PMID: 34740102, PMID: 29017516)

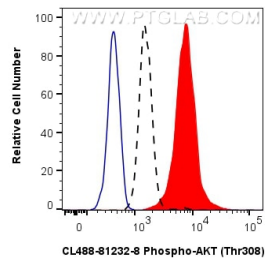
Storage

Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3
Aliquoting is unnecessary for -20°C storage

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)
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



1X10⁶ HEK-293 cells untreated (dashed lines) or treated with Calyculin A which intracellularly stained with 0.25 ug Coralite® Plus 488 Phospho-AKT (Thr308) Recombinant Antibody (CL488-81232-8, Clone:241845F1)(red), or 0.25 ug Coralite® Plus 488 Rabbit IgG Isotype Control RecAb (CL488-98136, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with 90% MeOH.