

For Research Use Only

# Phospho-AKT (Thr308) Recombinant antibody, PBS Only

Catalog Number: 81232-8-PBS



## Basic Information

<b>Catalog Number:</b> 81232-8-PBS	<b>GenBank Accession Number:</b> BC000479	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug, Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 207	<b>CloneNo.:</b> 241845F1
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P31749	
<b>Isotype:</b> IgG	<b>Full Name:</b> v-akt murine thymoma viral oncogene homolog 1	
	<b>Calculated MW:</b> 56 kDa	
	<b>Observed MW:</b> 60 kDa	

## Applications

**Tested Applications:**  
WB, FC (Intra), Indirect ELISA

**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 -80°C.

**Storage Buffer:**  
PBS Only

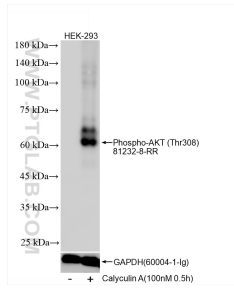
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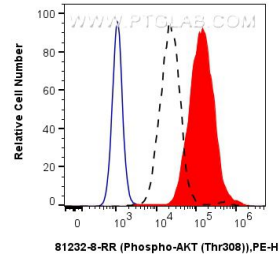
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## Selected Validation Data



Non-treated and Calyculin A treated HEK-293 cells were subjected to SDS PAGE followed by western blot with 81232-8-RR (Phospho-AKT (Thr308) antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with GAPDH (60004-1-Ig) antibody as a loading control. This data was developed using the same antibody clone with 81232-8-PBS in a different storage buffer formulation.



$1 \times 10^6$  Calyculin A treated HeLa cells were intracellularly stained with 0.25 ug Phospho-AKT (Thr308) Recombinant antibody (81232-8-RR, Clone:241845F1) and PE-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with 90% MeOH. This data was developed using the same antibody clone with 81232-8-PBS in a different storage

