

For Research Use Only

# Phospho-AKT (Thr308) Recombinant antibody

Catalog Number: 81232-8-RR



## Basic Information

**Catalog Number:**

81232-8-RR

**Size:**

100ul , Concentration: 1000 µg/ml by

Nanodrop;

**Source:**

Rabbit

**Isotype:**

IgG

**GenBank Accession Number:**

BC000479

**GeneID (NCBI):**

207

**UNIPROT ID:**

P31749

**Full Name:**

v-akt murine thymoma viral oncogene homolog 1

**Calculated MW:**

56 kDa

**Observed MW:**

60 kDa

**Purification Method:**

Protein A purification

**CloneNo.:**

241845F1

**Recommended Dilutions:**

WB 1:1000-1:4000

## Applications

**Tested Applications:**

WB, FC (Intra), ELISA

**Species Specificity:**

human

**Positive Controls:**

WB : Calyculin A treated HEK-293 cells,

## 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. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

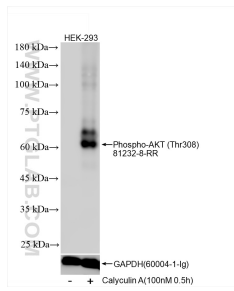
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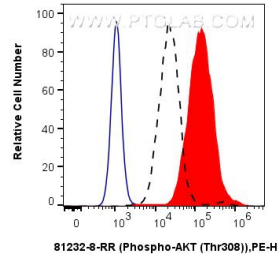
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## Selected Validation Data



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.



$1 \times 10^6$  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.