

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

Concentration:

1000 ug/ml

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:

FC (Intra): 0.25 ug per 10<sup>6</sup> cells in a 100 µl suspension

Excitation/Emission maxima wavelengths:

493 nm / 522 nm

## Applications

Tested Applications:

FC (Intra)

Species Specificity:

human

Positive Controls:

FC (Intra): 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. 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:

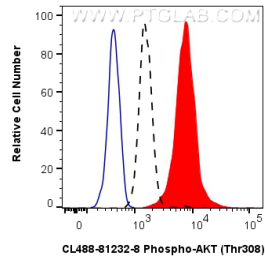
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

W: [ptgcn.com](http://ptgcn.com)

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## Selected Validation Data



1X10<sup>6</sup> 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.