

For Research Use Only

Phospho-AKT (Thr308) Recombinant antibody

Catalog Number: 81232-8-RR



Basic Information

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|--------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------|
| Catalog Number: 81232-8-RR | GenBank Accession Number: BC000479 | Purification Method: Protein A purification |
| Size: 1000 µg/ml | GeneID (NCBI): 207 | CloneNo.: 241845F1 |
| Source: Rabbit | UNIPROT ID: P31749 | Recommended Dilutions: WB 1:1000-1:4000 |
| Isotype: IgG | Full Name: v-akt murine thymoma viral oncogene homolog 1 | |
| | Calculated MW: 56 kDa | |
| | Observed MW: 60 kDa | |

Applications

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|------------------------------------------|----------------------------------------------------------------------|
| Tested Applications: WB, ELISA | Positive Controls: WB : 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. 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

For technical support and original validation data for this product please contact:

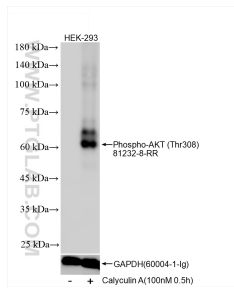
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Selected Validation Data



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.