Anti-Phospho-AKT (T308) Antibody [PSH08-10] - BSA and Azide free

HA751205

Product Type: Recombinant Rabbit monoclonal IgG, primary antibodies

Species reactivity: Human

WB, IF-Cell, FC Applications:

Molecular Wt: Predicted band size: 56 kDa

PSH08-10 Clone number:

Description: RAC(Rho family)-alpha serine/threonine-protein kinase is an enzyme that in humans is

> encoded by the AKT1 gene. This enzyme belongs to the AKT subfamily of serine/threonine kinases that contain SH2 (Src homology 2-like) protein domains. It is commonly referred to as PKB, or by both names as "Akt/PKB". The serine-threonine protein kinase AKT1 is catalytically inactive in serum-starved primary and immortalized fibroblasts. AKT1 and the related AKT2 are activated by platelet-derived growth factor. The activation is rapid and specific, and it is abrogated by mutations in the pleckstrin homology domain of AKT1. It was shown that the activation occurs through phosphatidylinositol 3-kinase. In the developing nervous system AKT is a critical mediator of growth factor-induced neuronal survival. Survival factors can suppress apoptosis in a transcription-independent manner by activating the serine/threonine kinase AKT1, which then phosphorylates and inactivates components of the apoptotic machinery. Mice lacking Akt1 display a 25% reduction in body mass, indicating that Akt1 is critical for transmitting growth-promoting signals, most likely via the IGF1 receptor. Mice lacking Akt1 are also resistant to cancer: They experience considerable delay in tumor growth initiated by the large T antigen or the Neu oncogene. A single-

nucleotide polymorphism in this gene causes Proteus syndrome.

Immunogen: Synthetic phospho-peptide corresponding to residues surrounding Thr308 of Human AKT1.

Jurkat treated with 100nM Calyculin A for 30 minutes cell lysate, HeLa treated with 100ng/mL Calyculin A for 30 minutes cell lysate, 293T treated with 100nM Calyculin A for 15 minutes

cell lysate, Jurkat cells treated with 100nM Calyculin A for 30 minutes.

Cytoplasm, Nucleus, Cell membrane. Subcellular location:

Database links: SwissProt: P31749 Human

Recommended Dilutions:

Positive control:

WB 1:2,000 IF-Cell 1:100 FC 1:1,000

Storage Buffer: PBS (pH7.4).

Storage Instruction: Store at $+4^{\circ}$ ° after thawing. Aliquot store at -20° °. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

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Images

kDa wiki ke 2 293 250-150-100-72-55-45-35-25-14-GAPDH - + - + - + Calyculin A **Fig1:** Western blot analysis of Phospho-AKT (T308) on different lysates with Rabbit anti-Phospho-AKT (T308) antibody (HA751205) at 1/2,000 dilution.

Lane 1: Jurkat cell lysate

Lane 2: Jurkat treated with 100nM Calyculin A for 30 minutes cell lysate

Lane 3: HeLa cell lysate

Lane 4: HeLa treated with 100ng/mL Calyculin A for 30 minutes

cell lysate

Lane 5: 293T cell lysate

Lane 6: 293T treated with 100nM Calyculin A for 15 minutes cell

lysate

Lysates/proteins at 30 µg/Lane.

Predicted band size: 56 kDa Observed band size: 56 kDa

Exposure time: 3 minutes;

4-20% SDS-PAGE gel.

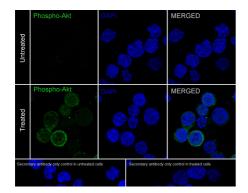


Fig2: Immunocytochemistry analysis of Jurkat cells treated with or without 100nM Calyculin A for 30 minutes labeling Phospho-AKT (T308) with Rabbit anti-Phospho-AKT (T308) antibody (HA751205) at 1/100 dilution.

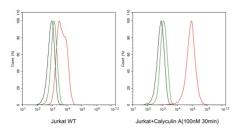


Fig3: Flow cytometric analysis of Jurkat cells treated with or without 100nM Calyculin A for 30 minutes labeling Phospho-AKT (T308).

Cells were fixed and permeabilized. Then stained with the primary antibody (HA751205, 1µg/mL) (red) compared with Rabbit IgG Isotype Control (green). After incubation of the primary antibody at +4 $^{\circ}$ C for an hour, the cells were stained with a iFluor † 488 conjugate-Goat anti-Rabbit IgG Secondary antibody (HA1121) at 1/1,000 dilution for 30 minutes at +4 $^{\circ}$ C. Unlabelled sample was used as a control (cells without incubation with primary antibody; black).

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

- 1. Huang L et al. PRMT5 activates AKT via methylation to promote tumor metastasis. Nat Commun. 2022 Jul
- 2. Liang XX et al. Phosphorylation of Akt at Thr308 regulates p-eNOS Ser1177 during physiological conditions. FEBS Open Bio. 2021 Jul