Phospho-Akt-T308 Rabbit mAb

Catalog No.: AP1533 Recombinant



Basic Information

Observed MW

60kDa

Calculated MW

48kDa/55kDa/51kDa/54kDa

Category

Primary antibody

Applications

WB,IP,ELISA

Cross-Reactivity

Human

CloneNo number

ARC3333

Background

The serine-threonine protein kinase encoded by the AKT1 gene 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. Mutations in this gene have been associated with the Proteus syndrome. Multiple alternatively spliced transcript variants have been found for this gene.

Recommended Dilutions

WB 1:1000 - 1:4000

IP 0.5μg-4μg antibody for 200μg-400μg extracts of

whole cells

ELISA Recommended starting

concentration is 1 µg/mL.

Please optimize the
concentration based on
your specific assay
requirements.

Immunogen Information

Gene ID Swiss Prot

Immunogen

207/208/10000

Synthetic peptide. This information is considered to be commercially sensitive.

P31749/P31751/Q9Y243

Synonyms

AKT1/AKT2/AKT3; Phospho-Akt-T308

Contact

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Product Information

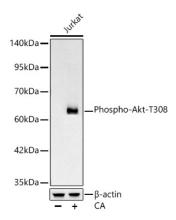
SourceIsotypePurificationRabbitIgGAffinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

Validation Data



Western blot analysis of lysates from Jurkat cells using Phospho-Akt-T308 Rabbit mAb (AP1533) at 1:1000 dilution incubated overnight at 4° C. Jurkat cells were treated by Calyculin A (100 nM) at 37° C for 30 minutes after serum-starvation overnight.

Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 30 µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 30s.