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Phospho-AKT1-T308+AKT2-T309+AKT3-T305 Rabbit pAb

Catalog No.: AP1172

2 Publications

Basic Information

Observed MW
60kDa

Calculated MW
48kDa/55kDa/51kDa/54kDa

Category
Polyclonal Antibodies

Applications
WB, ELISA

Cross Reactivity
Human, Mouse, Rat

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 - 1:6000

ELISA
Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
207/208/10000

Swiss-Prot
P31749/P31751/Q9Y243

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

Synonyms
AKT1/AKT2/AKT3; Phospho-AKT1-T308+AKT2-T309+AKT3-T305

Contact

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Product Information

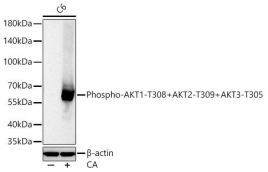
Source
Rabbit

Isotype
IgG

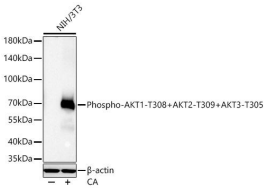
Purity
Affinity purification

Storage
Store at -20℃

Validation Data



Western blot analysis of lysates from C6 cells using Phospho-AKT1-T308+AKT2-T309+AKT3-T305 Rabbit pAb (AP1172) at 1:1000 dilution incubated overnight at 4° C. C6 cells were treated with CA (150 nM) at 37℃ for 30 min.
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: 1 s.



Western blot analysis of lysates from NIH/3T3 cells using Phospho-AKT1-T308+AKT2-T309+AKT3-T305 Rabbit pAb (AP1172) at 1:1000 dilution incubated overnight at 4℃. NIH/3T3 cells were treated with CA (200 nM) at 37℃ for 30 min.
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: 20 s.

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