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AP17878PU-N Polyclonal Antibody to AKT1 / PKB (N-term)

Alternate names: Akt-1, C-AKT, Protein kinase B, RAC-PK-alpha, RAC-alpha serine/threonine-protein kinase

Quantity: 0.4 ml

Concentration: lot specific

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.

Uniprot ID: P31749

NCBI: NP_001014431

GeneID: 207

Host: Rabbit

Immunogen: KLH conjugated synthetic peptide selected from the N-terminal region of human AKT1

Format:
State: Liquid purified Ig
Purification: Saturated Ammonium Sulfate (SAS) precipitation
Buffer System: PBS with 0.09% (W/V) sodium azide

Applications:
ELISA: 1/1,000.
Western blotting: 1/50 - 1/100.
Immunofluorescence: 1/10-1/50.
Flow Cytometry: 1/10-1/50.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:
This antibody reacts to AKT1.
Species: Human.
Other species not tested.

Storage:
Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

Pictures:

Western blot analysis of AKT1 Antibody (N-term) (AP17878PU-N) in MCF-7 cell line lysates (35ug/lane). AKT1 (arrow) was detected using the purified Pab.