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Phospho-AKT(T450) Polyclonal Antibody

Cat #: G-AB-12471

Host: Rabbit **Reactivity:** Human

Isotype: IgG **Clonality:**

Overview:
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.

Gene ID: 207

Accession #:

Immunogen: A synthetic phosphorylated peptide around T450 of human AKT1 (NP_005154.2).

Conjugation: Unconjugated

Swissprot: P31749

Calculated Molecular Weight: 48 kDa/55 kDa

Observed Molecular Weight: 60 kDa

Concentration: 1 mg/mL

Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3

Purification Method: Affinity purification

Application: WB,IF

Dilution: WB 1:500-1:1000 IF 1:20-1:100

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