

Recombinant Human AKT1

Catalog No: #GP10044



Package Size: #GP10044-1 100ug

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Description

Product Name	Recombinant Human AKT1
Brief Description	Recombinant Protein
Immunogen Description	Fusion protein corresponding to a region derived from 10-224 amino acids of human V-akt murine thymoma viral oncogene homolog 1
Target Name	V-akt murine thymoma viral oncogene homolog 1
Other Names	AKT, PKB, RAC, PRKBA, PKB-ALPHA, RAC-ALPHA
Accession No.	Swissprot:P31749Gene Accession:BC000479
Uniprot	P31749
GenID	207;
Storage	-20~-80°C, pH 7.6 PBS

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.

References

Note: For in vitro research use only, not for diagnostic or therapeutic use. This product is not a medical device.

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