

Recombinant Human AKT1 protein, MYC/DDK-tagged

Cat. No. AKT1-155H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human AKT1(E17K mutant), transcript variant 1, fused with MYC/DDK tag at C-terminal was expressed in HEK293.

Species Human

Source HEK293

Description 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.

Form 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

Molecular Mass 55.5 kDa

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles. Stable for at least 3 months from receipt of products under proper storage and handling conditions.

Concentration >50 ug/mL as determined by microplate BCA method

GENE INFORMATION

Gene Name AKT1 v-akt murine thymoma viral oncogene homolog 1 [Homo sapiens]

Official Symbol AKT1

Synonyms AKT1; v-akt murine thymoma viral oncogene homolog 1; RAC-alpha serine/threonine-protein kinase; AKT; PKB; PRKBA; RAC; PKB alpha; RAC-PK-alpha; proto-oncogene c-Akt; protein kinase B alpha; rac protein kinase alpha; PKB-ALPHA; RAC-ALPHA; MGC99656;

Gene ID 207

mRNA Refseq NM_005163

Protein Refseq NP_005154

MIM 164730

UniProt ID P31749

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