

Recombinant Human AKT1 Protein, MYC/DDK-tagged, C13 and N15-labeled

Cat. No. AKT1-014H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	AKT1 MS Standard C13 and N15-labeled recombinant protein (NP_005154) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	<p>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.</p>
Molecular Mass	55.7 kDa
AA Sequence	MSDVAVKKEGWLHHRGEYIKTWRPRYFLLKNDGTFIGYKERPQDQVDQREAPLNNFS VAQCQLMKTERPRPNTFIIRCLQWTTVIERTFHVETPEEREWTTAIQTVADGLKKQ

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EEEEMDFRSGSPSDNSGAEEMEVSLAKPKHRVTMNEFEYLKLLGKGTFGKVILVKE
 KATGRYYAMKILKKEVIVAKDEVAHTLTENRVLQNSRHPFLTALKYSFQTHDRLCFV
 MEYANGGELFFHLSRERVFSEDRARFYGAEIVSALDYHSEKNVVYRDLKLENLMLD
 KDGHIKITDFGLCKEGIKDGATMKTFCGTPEYLAPEVLEDNDYGRAVDWWGLGVVM
 YEMMCGRLPFYDHEKLFELIMEEIRFPRTLGPPEAKSLLSGLLKKDPKQRLGGGS
 EDAKEIMQHRFFAGIVWQHVVYEKLSPPFKPQVTSETDTRYFDEEFTAQMITITPPD
 QDDSMCEVDSERRPHFPQFSYSASGTATRTRPLEQKLISEEDLAANDILDYKDDDD
 KV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	AKT1 AKT serine/threonine kinase 1 [Homo sapiens (human)]
Official Symbol	AKT1
Synonyms	AKT1; AKT serine/threonine kinase 1; AKT; CWS6; PKB; PKB-ALPHA; PRKBA; RAC; RAC-ALPHA; RAC-alpha serine/threonine-protein kinase; AKT1m; PKB alpha; RAC-PK-alpha; protein kinase B alpha; proto-oncogene c-Akt; rac protein kinase alpha; serine-threonine protein kinase; v-akt murine thymoma viral oncogene homolog 1; v-akt murine thymoma viral oncogene-like protein 1; EC 2.7.11.1

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Gene ID 207

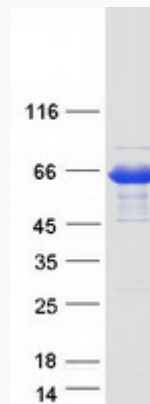
mRNA Refseq NM_005163

Protein Refseq NP_005154

MIM 164730

UniProt ID P31749

SDS-PAGE



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