

Recombinant Human AKT3 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. AKT3-1566H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	AKT3 MS Standard C13 and N15-labeled recombinant protein (NP_859029) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The protein encoded by this gene is a member of the AKT, also called PKB, serine/threonine protein kinase family. AKT kinases are known to be regulators of cell signaling in response to insulin and growth factors. They are involved in a wide variety of biological processes including cell proliferation, differentiation, apoptosis, tumorigenesis, as well as glycogen synthesis and glucose uptake. This kinase has been shown to be stimulated by platelet-derived growth factor (PDGF), insulin, and insulin-like growth factor 1 (IGF1). Alternatively splice transcript variants encoding distinct isoforms have been described.
Molecular Mass	53.9 kDa
AA Sequence	MSDVTIVKEGWVQKRGEYIKNWRPRYFLLKTDGSFIGYKEKPQDVDLPYPLNNFSV AKCQLMKTERPKPNTFIIRCLQWTTVIERTFHVDTPEEREWEATEAIQAVADRLQRQE EERMNCSPTSQIDNIGEEEMDASTTHHKRKTMNDFDYLKLLGKGTFGKVLVREKAS GKYYAMKILKKEVIIAKDEVAHTLTESRVLKNTRHPFLTSLKYSFQTKDRLCFVMEYV NGGELFFHLSRERVFSEDRTRFYGAEIVSALDYLHSGKIVYRDLKLENLMRDKDGHI

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KITDFGLCKEGITDAATMKTFCTPEYLAPEVLEDNDYGRAVDWWGLGVVEMYEMM
 CGRLPFYNQDHEKLFELILMEDIKFPRTLSSDAKSLLSGLLIKDPNKRLLGGGPDDAKEI
 MRHSFFSGVNWQDVYDKKLVPFQVTSQTDTRYFDEEFTAQTITITPPEKCCQS
 DCGMLGNWKKTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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 AKT3 AKT serine/threonine kinase 3 [Homo sapiens (human)]

Official Symbol AKT3

Synonyms AKT3; v-akt murine thymoma viral oncogene homolog 3 (protein kinase B, gamma); RAC-gamma serine/threonine-protein kinase; PKBG; PRKBG; RAC gamma; PKB gamma; RAC-gamma serine/threonine protein kinase; STK-2; PKB-GAMMA; RAC-gamma; RAC-PK-gamma; DKFZp434N0250;

Gene ID 10000

mRNA Refseq NM_181690

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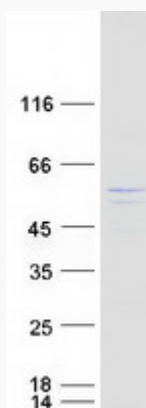
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Protein Refseq NP_859029

MIM 611223

UniProt ID Q9Y243

SDS-PAGE



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