

Recombinant Mouse Akt1 Protein, MYC/DDK-tagged

Cat. No. Akt1-566M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of full-length mouse thymoma viral proto-oncogene 1 (Akt1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	This gene encodes the founding member of the Akt serine-threonine protein kinase gene family that also includes Akt2 and Akt3. This kinase is a major downstream effector of the phosphatidylinositol 3-kinase (PI3K) pathway that mediates the effects of various growth factors such as platelet-derived growth factor (PDGF), epidermal growth factor (EGF), insulin and insulin-like growth factor I (IGF-I). It is activated through recruitment to cellular membranes by PI3K lipid products and by phosphorylation by 3-phosphoinositide dependent kinase-1. It then further phosphorylates different downstream proteins in response to various extracellular signals and thus plays a pivotal role in mediating a variety of cellular processes, such as glucose metabolism, glycogen biosynthesis, protein synthesis and turn over, inflammatory response, cell survival (anti-apoptosis) and development. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Molecular Mass	56.2 kDa
Purity	>80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and

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handling conditions. Avoid repeated freeze-thaw cycles.

Storage Store at -80 centigrade after receiving vials.

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

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

GENE INFORMATION

Gene Name Akt1 thymoma viral proto-oncogene 1 [Mus musculus (house mouse)]

Official Symbol Akt1

Synonyms Akt1; thymoma viral proto-oncogene 1; Akt; PKB; Rac; LTR-akt; PKB/Akt; PKBalpha; RAC-alpha serine/threonine-protein kinase; AKT1 kinase; Akt1m protein; PKB alpha; RAC-PK-alpha; protein kinase B-alpha; proto-oncogene c-AKT; related to A and C kinases; tumor rejection antigen peptide pRLib; EC 2.7.11.1

Gene ID 11651

mRNA Refseq NM_009652

Protein Refseq NP_033782

UniProt ID P31750

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