Recombinant Human AKT1 Protein, His-tagged

Cat. No. AKT1-14H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human AKT1 (1-480aa) protein with His tag was expressed in baculovirus.
Species	Human
Source	Insect Cells
ProteinLength	1-480 a.a.
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	Liquid
Molecular Mass	56.7 kDa

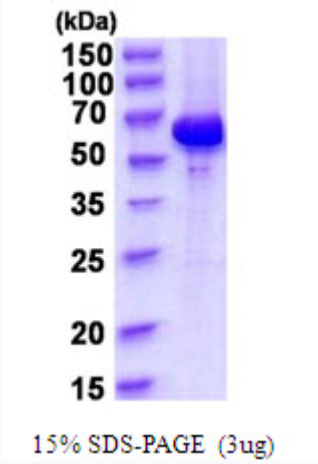
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Endotoxin	< 1.0 EU per 1 μg of protein (determined by LAL method)
Purity	> 90% by SDS-PAGE.
Notes	For research use only. This product is not intended or approved for human, diagnostics or veterinary use.
Storage	Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.5 mg/mL (determined by absorbance at 280 nm)
Storage Buffer	In phosphate buffered saline (pH7.4), 20% glycerol.

GENE INFORMATION

Gene Name	AKT1 AKT serine/threonine kinase 1 [Homo sapiens (human)]
Official Symbol	AKT1
Synonyms	AKT; PKB; RAC; CWS6; PRKBA; PKB-ALPHA; RAC-ALPHA; AKT1; AKT serine/threonine kinase 1; 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
Gene ID	207
mRNA Refseq	NM_001014432

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Protein Refseq	NP_001014432
MIM	164730
UniProt ID	P31749
	

15% SDS-PAGE (3ug)

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