

## Recombinant Human AKT3

Cat. No. AKT3-26264TH Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full length AKT3 protein (Human), expressed by baculovirus in Sf9 insect cells using an N-terminal tag, MW 85kDa.
<b>Species</b>	Human
<b>Description</b>	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.
<b>Tissue specificity</b>	In adult tissues, it is highly expressed in brain, lung and kidney, but weakly in heart, testis and liver. In fetal tissues, it is highly expressed in heart, liver and brain and not at all in kidney.
<b>Form</b>	Liquid
<b>Purity</b>	>90% by SDS-PAGE
<b>Storage buffer</b>	Preservative: None Constituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium chloride, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, pH 7.5

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<b>Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
<b>Sequence Similarities</b>	Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. RAC subfamily.Contains 1 AGC-kinase C-terminal domain.Contains 1 PH domain.Contains 1 protein kinase domain.
<b>Full Length</b>	Full L.

## GENE INFORMATION

<b>Gene Name</b>	AKT3 v-akt murine thymoma viral oncogene homolog 3 (protein kinase B, gamma) [ Homo sapiens ]
<b>Official Symbol</b>	AKT3
<b>Synonyms</b>	AKT3; v-akt murine thymoma viral oncogene homolog 3 (protein kinase B, gamma); RAC-gamma serine/threonine-protein kinase; PKBG; PRKBG; RAC gamma;
<b>Gene ID</b>	10000
<b>mRNA Refseq</b>	NM_001206729
<b>Protein Refseq</b>	NP_001193658
<b>MIM</b>	611223
<b>Uniprot ID</b>	Q9Y243
<b>Chromosome Location</b>	1q44

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**Pathway**

AKT phosphorylates targets in the cytosol, organism-specific biosystem; AKT phosphorylates targets in the nucleus, organism-specific biosystem; AKT-mediated inactivation of FOXO1A, organism-specific biosystem; Acute myeloid leukemia, organism-specific biosystem; Acute myeloid leukemia, conserved biosystem;

**Function**

ATP binding; nucleotide binding; protein binding; protein kinase activity; protein serine/threonine kinase activity;

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