

# Recombinant Human V-Akt Murine Thymoma Viral Oncogene Homolog 2, His-tagged

**Cat. No.** AKT2-985H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant human AKT2 (142-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal His tag.
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>ProteinLength</b>	142-end a.a.
<b>Description</b>	AKT2 or Protein Kinase B $\beta$ (PKB $\beta$ ) is a serine/threonine kinase that is a member of the AKT family. AKT2 like the other AKT members is activated in cells in response to diverse stimuli such as hormones, growth factors and extracellular matrix components and is involved in glucose metabolism, transcription, survival, cell proliferation, angiogenesis, and cell motility. The PI3K generates phosphatidylinositol-3, 4, 5-trisphosphate (PIP3), a lipid second messenger essential for the translocation of AKT2 to the plasma membrane where it is phosphorylated and activated by phosphoinositide-dependent kinase-1 (PDK-1).
<b>Applications</b>	Kinase Assay; Western Blot
<b>Molecular Weight</b>	41 kDa
<b>Expression System</b>	Sf9 insect cells using baculovirus

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<b>Form</b>	Recombinant protein stored in 50 mM sodium phosphate, pH 7.5, 300 mM NaCl, 150 mM imidazole, 0.2 mM DTT, 0.1 mM PMSF, 25 % glycerol.
<b>Purity</b>	> 90 %
<b>Concentration</b>	0.2 ug/ul
<b>Sequences</b>	142-end
<b>Storage</b>	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
<b>Pathways</b>	AKT phosphorylates targets in the cytosol; AKT phosphorylates targets in the nucleus; Activation of PKB; Acute myeloid leukemia; Adaptive Immunity Signaling; Adipocytokine signaling pathway; Apoptosis; B cell receptor signaling pathway; Chemokine signaling pathway; Chronic myeloid leukemia; Colorectal cancer; Endometrial cancer; ErbB signaling pathway; Fc epsilon RI signaling pathway; Insulin signaling pathway

## GENE INFORMATION

<b>Gene Name</b>	AKT2 v-akt murine thymoma viral oncogene homolog 2 [ Homo sapiens ]
<b>Official Symbol</b>	AKT2
<b>Synonyms</b>	AKT2; v-akt murine thymoma viral oncogene homolog 2; PKBB; PRKBB; PKBBETA; RAC-BETA; RAC-beta serine/threonine-protein kinase; PKB beta; RAC-PK-beta; protein kinase Akt-2; protein kinase B beta; rac protein kinase beta; murine thymoma viral (v-akt) homolog-2; EC 2.7.11.1; OTTHUMP00000174417

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<b>Gene ID</b>	208
<b>mRNA Refseq</b>	NM_001626
<b>Protein Refseq</b>	NP_001617
<b>MIM</b>	164731
<b>UniProt ID</b>	P31751
<b>Chromosome Location</b>	19q13.1-q13.2
<b>Function</b>	ATP binding; kinase activity; nucleotide binding; protein binding; protein kinase C binding; protein serine/threonine kinase activity
<b>Protein AKT2 PDB</b>	1gzk.

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