

## Active Recombinant Human AKT3, GST-tagged

Cat. No. AKT3-1365H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full-length human AKT3 was expressed by baculovirus in Sf9 insect cells using a N-terminal GST tag.
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>ProteinLength</b>	Full length
<b>Description</b>	<p>AKT 3 or Protein Kinase B <math>\gamma</math> (PKB<math>\gamma</math>) is a serine/threonine kinase that is a member of the AKT family. AKT 3 is activated in cells exposed to diverse stimuli such as hormones, growth factors, and extracellular matrix components. AKT 3 phosphorylates and regulates the function of many cellular proteins involved in processes that include cellular metabolism, survival/apoptosis, and proliferation. Recent evidence indicates that AKT 3 is frequently overexpressed in many types of human cancers including breast and prostate.</p>
<b>Form</b>	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, 25% glycerol.
<b>Bio-activity</b>	206 nmol/min/mg
<b>Molecular Mass</b>	~85 kDa
<b>Purity</b>	>90%

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Applications</b>	Kinase Assay, Western Blot
<b>Storage</b>	Store at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
<b>Concentration</b>	0.1µg/µl
<b>GENE INFORMATION</b>	
<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; PKB gamma; RAC-gamma serine/threonine protein kinase; STK-2; PKB-GAMMA; RAC-gamma; RAC-PK-gamma; DKFZp434N0250;
<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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

**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; Adaptive Immune System, organism-specific biosystem; Adipocytokine signaling pathway, organism-specific biosystem;

**Function**

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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA