

## Active Recombinant Human AKT2, GST-tagged

**Cat. No.** AKT2-802H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human AKT2, fused with GST-tag at N-terminal, was expressed in Sf9 cells.
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>Description</b>	This gene is a putative oncogene encoding a protein belonging to a subfamily of serine/threonine kinases containing SH2-like (Src homology 2-like) domains. The gene was shown to be amplified and overexpressed in 2 of 8 ovarian carcinoma cell lines and 2 of 15 primary ovarian tumors. Overexpression contributes to the malignant phenotype of a subset of human ductal pancreatic cancers. The encoded protein is a general protein kinase capable of phosphorylating several known proteins.
<b>Form</b>	Liquid
<b>Bio-activity</b>	The specific activity was determined to 43 nmol/min/mg as per Activity Assay Protocol.
<b>Molecular Mass</b>	85 kDa
<b>Purity</b>	>90% by densitometry
<b>Applications</b>	Functional Study; SDS-PAGE

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<b>Storage</b>	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
<b>Storage Buffer</b>	In 50 mM Tris-HCl, 150 mM NaCl, pH 7.5 (0.25 mM DTT, 0.1 mM EGTA, 0.1 mM EDTA, 0.1 mM PMSF, 25% glycerol)
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	<a href="#">AKT2 v-akt murine thymoma viral oncogene homolog 2 [ Homo sapiens ]</a>
<b>Official Symbol</b>	AKT2
<b>Synonyms</b>	AKT2; v-akt murine thymoma viral oncogene homolog 2; PKBB; PRKBB; PKBBETA; RAC-BETA; AKT2 kinase; rac protein kinase beta; Murine thymoma viral (v-akt) homolog-2; EC 2.7.11.1; RAC-beta serine/threonine-protein kinase; RAC-PK-beta; Protein kinase Akt-2; Protein kinase B, beta; PKB beta
<b>Gene ID</b>	<a href="#">208</a>
<b>mRNA Refseq</b>	<a href="#">NM_001626</a>
<b>Protein Refseq</b>	<a href="#">NP_001617</a>
<b>MIM</b>	<a href="#">164731</a>
<b>UniProt ID</b>	<a href="#">P31751</a>
<b>Chromosome Location</b>	19q13.1-q13.2
<b>Pathway</b>	AKT phosphorylates targets in the cytosol; AMPK signaling; Activation of BH3-only proteins

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**Function**

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

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