

## Recombinant Human AKT2, His-tagged

**Cat. No.** AKT2-165H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full-length human AKT2 was co-expressed with PDK1 by baculovirus infection in Sf9 insect cells.
<b>Species</b>	Human
<b>Source</b>	Insect 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>Molecular Mass</b>	57 kDa
<b>Specific Activity</b>	7 pmol/min/g. The enzyme reaction is conducted in a buffer containing 50 mM HEPES (pH7.5), 10 mM MgCl <sub>2</sub> , 1 mM EGTA, 200 μM ATP, 0.01% Brij-35, and 2 μM substrate at 30 °C for 1 hour.
<b>Application</b>	Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.
<b>Purity</b>	≥90%
<b>Formulated in</b>	40 mM Tris-HCl, pH 8.0, 110 mM NaCl, 2.2 mM KCl, 250 mM imidazole, 20%

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glycerol, and 3 mM DTT.

**Stability** >6 months at –80°C

**OfficialSymbol** AKT2

## GENE INFORMATION

**Gene Name** [AKT2 v-akt murine thymoma viral oncogene homolog 2 \[ Homo sapiens \]](#)

**Synonyms** 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

**Gene ID** [208](#)

**mRNA Refseq** [NM\\_001626](#)

**Protein Refseq** [NP\\_001617](#)

**MIM** [164731](#)

**UniProt ID** [P31751](#)

**Chromosome Location** 19q13.1-q13.2

**Pathway** Acute myeloid leukemia; Adipocytokine signaling pathway; Apoptosis; B cell receptor signaling pathway; Chemokine signaling pathway; Chronic myeloid leukemia; Colorectal cancer; Endometrial cancer; ErbB signaling pathway

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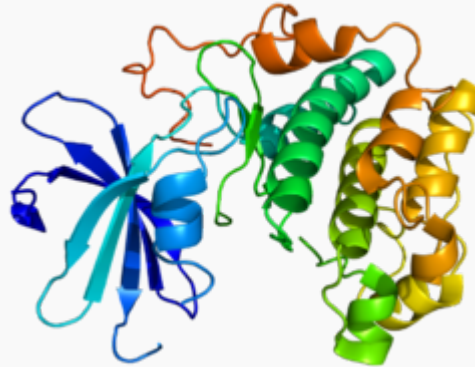
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**Function**

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

**PDB rendering  
based on 1gzk.**



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