

Recombinant Human AKT2, His-tagged

Cat. No. AKT2-166H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human AKT2, full length with N-terminal 6*His tag, MW=57 kDa, expressed in a Baculovirus infected Sf9 cell expression system.
Species	Human
Source	Sf9 Cells
Description	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.
Molecular Mass	57 kDa
Specific Activity	Inactive
Application	Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling
Purity	≥90%
Formulated in	45 mM Tris-HCl, pH 8.0, 124 mM NaCl, 2.4 mM KCl, 225 mM imidazole, 10% glycerol, and 3 mM DTT.

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Stability	>6 months at –80°C
OfficialSymbol	AKT2
Full Length	Full L.
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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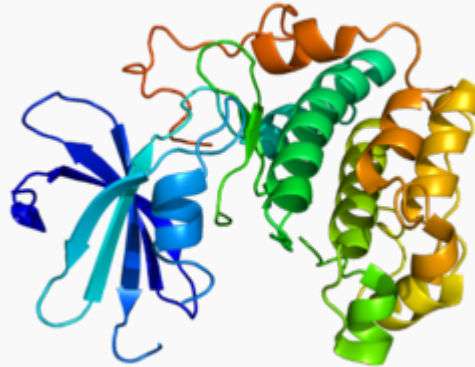
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Function

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

**PDB rendering
based on 1gzk.**



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