Active Recombinant Human AKT2, GST-tagged

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

SPECIFICATION

Product Overview	Recombinant Human AKT2, fused with GST-tag at N-terminal, was expressed in Sf9 cells.
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 phophorylating several known proteins.
Form	Liquid
Bio-activity	The specific activity was determined to 43 nmol/min/mg as per Activity Assay Protocol.
Molecular Mass	85 kDa
Purity	>90% by densitometry
Applications	Functional Study; SDS-PAGE

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Storage	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	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)

GENE INFORMATION

Gene Name	AKT2 v-akt murine thymoma viral oncogene homolog 2 [Homo sapiens]
Official Symbol	AKT2
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	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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