

AKT1 recombinant protein

AKT1, Unactive recombinant protein

CATALOG # AAA72906	APPLICATIONS Western Blot
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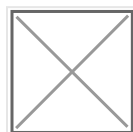
PRODUCT SYNONYMS

AKT1; Unactive recombinant protein; PKB; RAC; PRKBA; MGC99656; RAC-ALPHA; AKT1 recombinant protein

PRODUCT SPECIFICATIONS

Purity/Purification	>90%
Form/Format	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Concentration	0.2ug/ml (varies by lot)
Sequence Length	3008
Applicable Applications for AKT1 recombinant protein	WB (Western Blot), Kinase Assay
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles. Product shipped on dry ice.

IMAGES



SDS-PAGE

The purity was determined to be >90% by densitometry

ADDITIONAL INFORMATION

Related Product Information for AKT1 recombinant protein	Recombinant full-length human unactive AKT1 was expressed in Sf9 cells using an N-terminal GST tag. Scientific Background: AKT1/PKB? is a serine/threonine kinase that belongs to the AKT family. AKT1 is activated in cells in response to diverse stimuli such as hormones, growth factors and extracellular matrix components and is involved in glucose metabolism, transcription, survival, cell proliferation, angiogenesis, and cell motility (1). AKT1 is frequently overexpressed and active in many types of human cancers including cancers of colon, breast, brain, pancreas and prostate as well as lymphomas and leukemias (2).
Product Categories/Family for AKT1 recombinant protein	Unactive Kinase ; Signaling Proteins - Unactive Kinases
References	1. Coffey, P.J. et al: Protein kinase B (c-Akt): a multifunctional mediator of phosphatidylinositol 3-kinase activation. <i>Biochem J.</i> 1998 Oct 1; 335 (Pt 1): 1-13. 2. Anderson, K.E. et al: Translocation of PDK-1 to the plasma membrane is important in allowing PDK-1 to activate protein kinase B. <i>Curr Biol.</i> 1998 Jun 4;8(12): 684-91.

NCBI AND UNIPROT INFORMATION

NCBI GI #	62241010
NCBI GeneID	207
NCBI Accession #	NP_005154.2
NCBI GenBank Nucleotide #	NM_005163
UniProt Accession #	P31749; Q9BWB6; B2RAM5
Molecular Weight	~85 kDa
NCBI Official Full Name	Homo sapiens v-akt murine thymoma viral oncogene homolog 1 (AKT1), transcript variant 1, mRNA
NCBI Official Synonym Full Names	v-akt murine thymoma viral oncogene homolog 1
NCBI Official Symbol	AKT1
NCBI Official Synonym Symbols	AKT; PKB; RAC; CWS6; PRKBA; PKB-ALPHA; RAC-ALPHA
NCBI Protein Information	RAC-alpha serine/threonine-protein kinase; PKB alpha; RAC-PK-alpha; proto-oncogene c-Akt; protein kinase B alpha; rac protein kinase alpha
UniProt Protein Name	RAC-alpha serine/threonine-protein kinase
UniProt Gene Name	AKT1
UniProt Synonym Gene Names	PKB; RAC; PKB; PKB alpha
UniProt Entry Name	AKT1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/akt1-recombinant-protein-wb-western-blot-kinase-assay/72906>