

## Active Recombinant Human AKT1 Protein, GST-His tagged

Cat. No. AKT1-420H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Human AKT1 (NM_005163, 106 a.a. - 480 a.a) partial recombinant protein with GST-His tag expressed in Sf9 cells.
<b>Species</b>	Human
<b>Source</b>	Insect Cells
<b>ProteinLength</b>	106-480 a.a.
<b>Description</b>	<p>The serine-threonine protein kinase encoded by the AKT1 gene is catalytically inactive in serum-starved primary and immortalized fibroblasts. AKT1 and the related AKT2 are activated by platelet-derived growth factor. The activation is rapid and specific, and it is abrogated by mutations in the pleckstrin homology domain of AKT1. It was shown that the activation occurs through phosphatidylinositol 3-kinase. In the developing nervous system AKT is a critical mediator of growth factor-induced neuronal survival. Survival factors can suppress apoptosis in a transcription-independent manner by activating the serine/threonine kinase AKT1, which then phosphorylates and inactivates components of the apoptotic machinery. Mutations in this gene have been associated with the Proteus syndrome. Multiple alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jul 2011]</p>
<b>Form</b>	Liquid
<b>Bio-activity</b>	328

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	pmol/μg x min
<b>Molecular Mass</b>	77.832 kDa
<b>Applications</b>	Functional Study; SDS-PAGE
<b>Storage</b>	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
<b>Concentration</b>	0.434 ug/uL
<b>Storage Buffer</b>	In 50 mM Tris-HCl, 100 mM NaCl, pH 8.0. (5 mM DTT, 15 mM reduced glutathione, 20% glycerol)

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">AKT1 v-akt murine thymoma viral oncogene homolog 1 [ Homo sapiens ]</a>
<b>Official Symbol</b>	<a href="#">AKT1</a>
<b>Synonyms</b>	AKT1; v-akt murine thymoma viral oncogene homolog 1; RAC-alpha serine/threonine-protein kinase; AKT; PKB; PRKBA; RAC; PKB alpha; RAC-PK-alpha; proto-oncogene c-Akt; protein kinase B alpha; rac protein kinase alpha; PKB-ALPHA; RAC-ALPHA; MGC99656;
<b>Gene ID</b>	<a href="#">207</a>
<b>mRNA Refseq</b>	<a href="#">NM_001014431</a>
<b>Protein Refseq</b>	<a href="#">NP_001014431</a>
<b>MIM</b>	<a href="#">164730</a>

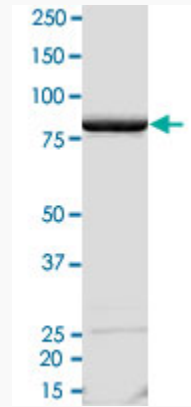
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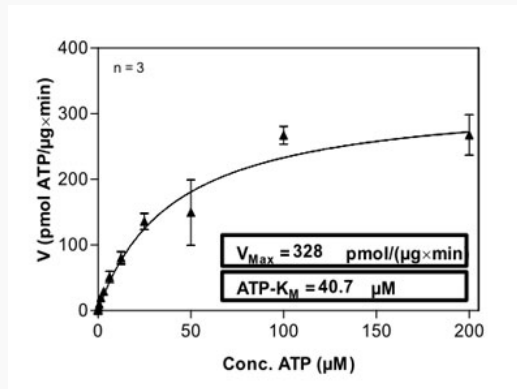
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UniProt ID

P31749



2  $\mu$ g/lane SDS-PAGE Stained with Coomassie Blue



Result of activity analysis

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