

# Recombinant Full Length Human AKT1 Protein, GST-tagged

Cat. No. AKT1-1532HF    Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Human AKT1 full-length ORF ( AAH00479.1, 1 a.a. - 480 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>ProteinLength</b>	480 amino acids
<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>Molecular Mass</b>	78.54 kDa
<b>AA Sequence</b>	MSDVAIVKEG WLHKRGEYIK TWRPRYFLK NDKTFIGYKE RPQDVDQREA

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PLNNFSVAQC QLMKTERPRP NTFIIRCLQW TTVIERTLHV ETPEEREWT  
 TAIQTVADGL KKQEEEEEMDF RSGSPSDNSG AEEMEVS LAK PKHRVTMNEF  
 EYLKLLGKGT FGKVLVKEK ATGRYYAMKI LKKEVIVAKD EVAHTLTENR  
 VLQNSRHPFL TALKYSFQTH DRLCFVMEYA NGGELFFHLS RERVFSEDRA  
 RFYGAEIVSA LDY LHSEKNV VYRDLKLENL MLDKDGHKI TDFGLCKEGI  
 KDGATMKTFC GTPEYL APEV LEDNDYGRAV DWWGLGVVMY EMMCGRLPFY  
 NQDHEKLFEL ILMEEIRFPR TLGPEAKSL SGLLKKDPKQ RLGGSSEDAK  
 EIMQHRFFAG IVWQH VYEKK LSPPFKPQVT SETDTRYFDE EFTAQMITIT  
 PPDQDDSMEC VDSERRPHFP QFSYSASGTA

**Applications**

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);  
 Antibody Production; Protein Array

**Storage**

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer**

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

**Gene Name**

[AKT1 v-akt murine thymoma viral oncogene homolog 1 \[ Homo sapiens \]](#)

**Official Symbol**

[AKT1](#)

**Synonyms**

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

**Gene ID**

[207](#)

**mRNA Refseq**

[NM\\_001014431](#)

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**Protein Refseq** NP\_001014431

**MIM** 164730

**UniProt ID** P31749

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