

Product information

AKT1, 1-480aa

Human, His-tagged, Recombinant, Insect cell

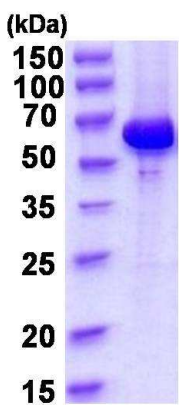
Cat. No. IBATGP3118

Full name: RAC-alpha serine/threonine-protein kinase

NCBI Accession No.: NP_001014432

Synonyms: AKT, CWS6, PKB, PKB-ALPHA, PRKBA, RAC, RAC-ALPHA

Description: AKT1, also known as RAC-alpha serine/threonine-protein kinase, 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. 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. Recombinant human AKT1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

<p>Form: Liquid. In phosphate buffered saline (pH7.4), 20% glycerol.</p> <p>Molecular Weight: 56.7kDa (488aa) 50-70kDa (SDS-PAGE under reducing conditions.)</p> <p>Purity: > 90% by SDS – PAGE.</p> <p>Concentration: 0.5mg/ml (determined by absorbance at 280nm)</p> <p>Endotoxin Level: < 1.0 EU per 1µg of protein (determined by LAL method)</p>	 <p>15% SDS-PAGE (3µg)</p>
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Sequences of amino acids:

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MSDVAIVKEG WLHKRGEYIK TWRPRYFLLK NDGTFIGYKE RPQDVDQREA PLNNSVAQC QLMKTERPRP NTFIIRCLQW TTVIERTFHV
ETPEEREWT TAIQTVADGL KKQEEEMDF RSGSPSDNSG AEEMEVS LAK PKHRVTMNEF EYLKLLGKGT FGKVI L VKEK ATGRYYAMKI
LKKEVIVAKD EVAHTLTENR VLQNSRHPFL TALKYSFQTH DRLCFVMEYA NGGELFFHLS RERVFSEDRA RFYGAIEVSA LDYLHSEKNV
VYRDLKLENL MLDKDGHIKI TDFGLCKEGI KDGATMKTFC GTPEYLAPEV LEDNDYGRAV DWWGLGVVMY EMMCGRLPFY NQDHEKLFEL
ILMEEIRFPR TLGPEAKSL L SGLLKKDPKQ RLGGGSEDAK EIMQHRFFAG IVWQHVVYEK LSPPFKPQVT SETDTRYFDE EFTAQMIIIT
PPDQDDSMEC VDSERRPHFP QFSYSASGTA LEHHHHHH
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General references:

Lindhurst MJ, *et al* (2011) *N Engl J Med.* 365(7):611-9.

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.
Avoid repeated freezing and thawing cycles.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.