

Product information

AKT1, 1-480aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP2915

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

NCBI Accession No.: NP_001014432

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

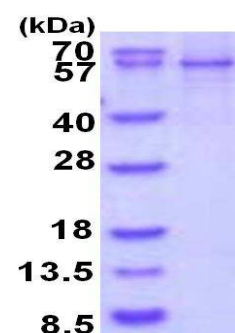
Description: AKT1 serine-threonine protein kinase is catalytically inactive in serum-starved primary and immortalized fibroblasts. AKT1 and the related AKT2 are activated by platelet-derived growth factor. The activation is rapid and specific, and it is abrogated by mutations in the pleckstrin homology domain of AKT1. It was shown that the activation occurs through phosphatidylinositol 3-kinase. In the developing nervous system AKT is a critical mediator of growth factor-induced neuronal survival. Recombinant human AKT1 protein, fused to His-tag at N-terminus, was expressed in *E.coli*.

Form: Liquid. In 20mM Tris-HCl (pH8.0) containing 10% glycerol

Molecular Weight: 58.1kDa (503aa)

Purity: > 85% by SDS - PAGE

Concentration: 0.5mg/ml (determined by Bradford assay)



15% SDS-PAGE (3ug)

Sequences of amino acids:

MGSSHHHHH SSGLVPRGSH MGSMSDVAIV KEGWLHKRGE YIKTWRPRYF LLKNDGTFIG YKERPQDQVQ REAPLNNFSV AQCQLMKTER
PRPNTFIIRC LQWTTVIERT FHVETPEERE EWTTAIQTVA DGLKKQEEEE MDRSGSPSD NSGAEEMSVS LAKPKHRVTM NEFEYLKLLG
KGTGKQVILV KEKATGRYYA MKILKKEVIV AKDEVAHTLT ENRVLQNSRH PFLTALKYSF QTHDRLCFVM EYANGGELFF HLSRERVFSE
DRARFYGAEL VSALDYLHSE KNVVYRDLKL ENLMLDKDGH IKITDFGLCK EGIKDGATMK TFCGTPEYLA PEVLEDNDYG RAVDWWGLGV
VMYEMMCGRL PFYNQDHEKL FELILMEEIR FPRTLGPPEAK SLLSGLLKDD PKQRLGGGSE DAKEIMQHRF FAGIVQHVY EKLSPPFPK
QVTSETDTRY FDEEFTAQMI TITPPDQDSS MECVDSERRP HFPQFSYSAS GTA

General references:

Dobashi Y., *et al.* (2014) *Hum. Pathol.* 45 (1), 127-136

Liu K, *et al.* (2013) *Mol. Cell. Biol.* 33 (23), 4685-4700

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.