

Recombinant human Akt1 protein

Catalog Number: ATGP2915

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-480aa

UniProt No.

P31749

NCBI Accession No.

NP_001014432

Alternative Names

Protein kinase B, Protein kinase B alpha, Proto-oncogene c-Akt, RAC-PK-alpha

PRODUCT SPECIFICATION

Molecular Weight

58.1 kDa (503aa)

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

Purity

> 85% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE, Denatured

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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.

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Amino acid Sequence

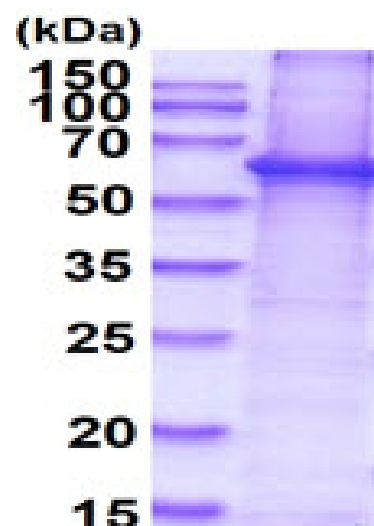
MGSSHHHHHH SSGLVPRGSH MGSMSDVAIV KEGWLHKRGE YIKTWRPRYF LLKNDGTFIG YKERPQDQVDQ REAPLNNFSV
AQCQLMKTER PRPNTFIIRC LQWTTVIERT FHVETPEERE EWTTAIQTVA DGLKKQEEEE MDFRSGSPSD NSGAEEMEVS
LAKPKHRVTM NEFEYLKLLG KGTFGKVILV KEKATGRYYA MKILKKEVIV AKDEVAHTLT ENRVLQNSRH PFLTALKYSF
QTHDRLCFVM EYANGGELFF HLSRERVFSE DRARFYGAEI VSALDYHSE KNVVYRDLKL ENLMLDKDGH IKITDFGLCK
EGIKDGATMK TFCGTPEYLA PEVLEDNDYG RAVDWWGLGV VMYEMMCGR L PFYNQDHEKL FELILMEEIR FPRTLGP EAK
SLLSGLLKKD PKQRLGGGSE DAK EIMQHRF FAGIVWQH VY EKKLSPPFKP QVTSETDTRY FDEEFTAQMI TITPPDQDDS
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

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)