

Recombinant Human AKT1 Protein, His-GST-tagged

Cat. No. AKT1-001H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human AKT1 Protein 1-480 aa (full-length) with a 6xHis-GST tag was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	1-480 a.a.
Description	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.
Molecular Mass	84.6 kDa
Purity	>95% confirmed by SDS-Page and Coomassie blue staining.

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Applications	ELISA, WB, Antibody Production, Protein array
Quality Control Test	10% SDS-PAGE stained with Coomassie Blue (CB), immunoblotting with anti-6xHis (WB) serum and peptide fingerprinting by MALDI-TOF-TOF mass spectrometry.
Storage	Store working aliquots at 4 centigrade for up to one week. For extended storage, conserve at -80 centigrade.
Expiry	12 months from the date of purchase, if it is properly stored.
Storage Buffer	20mM Tris-HCl, 0.5M NaCl, 100mM imidazole, pH: 8.0. No preservatives added.
Shipping	Dry Ice

GENE INFORMATION

Gene Name	AKT1 AKT serine/threonine kinase 1 [Homo sapiens (human)]
Official Symbol	AKT1
Synonyms	AKT1; AKT serine/threonine kinase 1; AKT; PKB; RAC; CWS6; PRKBA; PKB-ALPHA; RAC-ALPHA;
Gene ID	207
mRNA Refseq	NM_001014432
Protein Refseq	NP_001014432
MIM	164730

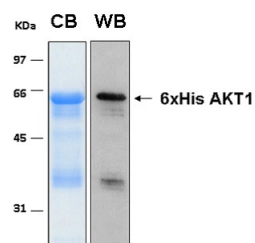
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