

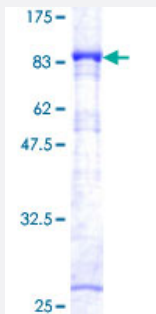
Full-Length

AKT3 (Human) Recombinant Protein (P01)

Catalog # H00010000-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human AKT3 full-length ORF (NP_005456.1, 1 a.a. - 479 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MSDVTIVKEGWVQKRGEYIKNWRPRYFLLKTDGSFIGYKEKPQDVDLPYPLNFSVAKCQLMKTE
RPKPNTFIIRCLQWTTVIERTFHVDTPPEEREWEAIAQAVADRLQRQEEERMNCSPSTQIDNIGEEE
MDASTTHHKRKTMNDFDYLLKLGKGTFGKLVREKASGKYAMKILKKEVIAKDEVAHTLTESRV
LKNTRHPFLTSLKYSFQTKDRLCFVMEYVNGGELFFHLSRERVFSERTRFYGAENVASLDYLHSG
KIVYRDLKLENLMLDKDGHKITDFGLCKEGITDAATMKTFCGTPEYLAPEVLEDNDYGRAVDWWG
LGVMYEMMCGRLPFYNQDHEKLFELILMEDIKFPRTLSSDAKSLLSGLLIKDPNKRLLGGGPDDA
KEIMRHSFFSGVNWQDVYDKKLVPFPKQVTSETDTRYFDEEFTAQTITITPPEKYDEDGMDCMD
NERRPHFPQFSYSASGRE

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

78.32

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

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

Storage Instruction

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

Note

Best use within three months from the date of receipt of this protein.

Applications

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

Gene Info — AKT3

Entrez GeneID[10000](#)**GeneBank Accession#**[NM_005465.1](#)**Protein Accession#**[NP_005456.1](#)**Gene Name**

AKT3

Gene Alias

DKFZp434N0250, PKB-GAMMA, PKBG, PRKBG, RAC-PK-gamma, RAC-gamma, STK-2

Gene Description

v-akt murine thymoma viral oncogene homolog 3 (protein kinase B, gamma)

Omim ID[611223](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

The protein encoded by this gene is a member of the AKT, also called PKB, serine/threonine protein kinase family. AKT kinases are known to be regulators of cell signaling in response to insulin and growth factors. They are involved in a wide variety of biological processes including cell proliferation, differentiation, apoptosis, tumorigenesis, as well as glycogen synthesis and glucose uptake. This kinase has been shown to be stimulated by platelet-derived growth factor (PDGF), insulin, and insulin-like growth factor 1 (IGF1). Alternatively splice transcript variants encoding distinct isoforms have been described. [provided by RefSeq]

Other Designations

OTTHUMP00000037911|OTTHUMP00000037912|RAC-gamma serine/threonine protein kinase|protein kinase B gamma|serine threonine protein kinase, Akt-3|v-akt murine thymoma viral oncogene homolog 3

Pathway

- [Acute myeloid leukemia](#)
- [Adipocytokine signaling pathway](#)
- [Apoptosis](#)
- [B cell receptor signaling pathway](#)
- [Chemokine signaling pathway](#)
- [Chronic myeloid leukemia](#)
- [Colorectal cancer](#)
- [Endometrial cancer](#)
- [ErbB signaling pathway](#)
- [Fc epsilon RI signaling pathway](#)
- [Fc gamma R-mediated phagocytosis](#)
- [Focal adhesion](#)
- [Glioma](#)
- [Insulin signaling pathway](#)
- [Jak-STAT signaling pathway](#)
- [MAPK signaling pathway](#)
- [Melanoma](#)
- [mTOR signaling pathway](#)
- [Neurotrophin signaling pathway](#)
- [Non-small cell lung cancer](#)
- [Pancreatic cancer](#)
- [Pathways in cancer](#)
- [Prostate cancer](#)

- [Renal cell carcinoma](#)
- [Small cell lung cancer](#)
- [T cell receptor signaling pathway](#)
- [Tight junction](#)
- [Toll-like receptor signaling pathway](#)
- [VEGF signaling pathway](#)

Disease

- [Adenocarcinoma](#)
- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [HIV Infections](#)
- [Multiple Sclerosis](#)
- [Thyroid Neoplasms](#)
- [Urinary Bladder Neoplasms](#)