

## Product datasheet for **TP324750**

### AKT3 (NM\_181690) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins  
**Description:** Recombinant protein of human v-akt murine thymoma viral oncogene homolog 3 (protein kinase B, gamma) (AKT3), transcript variant 2, 20 µg

**Species:** Human

**Expression Host:** HEK293T

**Expression cDNA Clone or AA Sequence:** >RC224750 representing NM\_181690  
**Red**=Cloning site **Green**=Tags(s)

MSDVTIVKEGWVQKRGEYIKNWRPRYFLLKTDGSGFIGYKEKPQDVLDPYPLNNSVAKCQLMKTERPKPN  
TFIIRCLQWTTVIERTFHVDTPEREWEAIQAVADRLQRQEEERMNCSPTSQIDNIGEEEMDASTTHH  
KRKTMNDFDYLKLLGKGTFGKVLVREKASGKYAMKILKKEVIAKDEVAHTLTERVLKNTRHPFLTS  
LKYSFQTKDRLCFVMEYVNGGELFFHLSRERVFSEDRTFRFYGAEIVSALDYLHSGKIVYRDLKLENLMRD  
KDGHIKITDFGLCKEGITDAATMKTFCGTPEYLAPEVLEDNDYGRAVDWWGLGWVYEMMCGRLPFYNQD  
HEKLFELILMEDIKFPRTLSSDAKSLLSGLLIKDPNKRLLGGGPDDAKEIMRHSFFSGVNWQDVYDKLVP  
PFKPQVTSETDTRYFDEEFTAQTITITPPEKCCQQSDCGMLGNWKK

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Tag:** C-Myc/DDK

**Predicted MW:** 53.9 kDa

**Concentration:** >0.05 µg/µL as determined by microplate BCA method

**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

**Note:** For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

**Storage:** Store at -80°C.

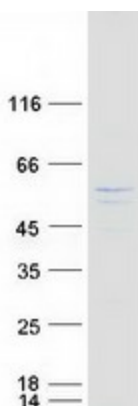
**Stability:** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.



[View online >](#)

RefSeq:	<a href="#">NP_859029</a>
Locus ID:	10000
UniProt ID:	<a href="#">Q9Y243</a>
RefSeq Size:	1703
Cytogenetics:	1q43-q44
RefSeq ORF:	1395
Synonyms:	MPPH; MPPH2; PKB-GAMMA; PKBG; PRKBG; RAC-gamma; RAC-PK-gamma; STK-2
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, Jul 2008]
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase
Protein Pathways:	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, Progesterone-mediated oocyte maturation, Prostate cancer, Renal cell carcinoma, Small cell lung cancer, T cell receptor signaling pathway, Tight junction, Toll-like receptor signaling pathway, VEGF signaling pathway

### Product images:



Coomassie blue staining of purified AKT3 protein (Cat# TP324750). The protein was produced from HEK293T cells transfected with AKT3 cDNA clone (Cat# [RC224750]) using MegaTran 2.0 (Cat# [TT210002]).