AKT3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	AKT3, Polyclonal Antibody
Full Product Name	AKT3 Antibody
Product Gene Name	anti-AKT3 antibody
Product Synonym Names	MPPH; PKBG; PRKBG; STK-2; PKB-GAMMA; RAC-gamma; RAC-PK-gamma
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Rabbit IgG in pH7.4 PBS, 0.05% NaN3, 40% Glycerol.
Purity/Purification	Antigen affinity purification.
Specificity	The antibody detects endogenous levels of total AKT3 protein.
Preparation and Storage	Store at 4 degree C short term. Aliquot and store at -20 degree C long term. Avoid freeze/thaw cycles.
Molecular Weight	55,775 Da
Chromosome Location	Chromosome: 1; NC_000001.10 (243651535..244006886, complement). Location: 1q44
OMIM	603387
3D Structure	ModBase 3D Structure for Q9Y243
Immunogen	Synthetic peptide corresponding to a region derived from internal residues of human v-akt murine thymoma viral oncogene homolog 3 (protein kinase B, gamma)
Product Categories/Family for anti-AKT3 antibody	Primary Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-AKT3 antibody	Immunohistochemistry (IHC)
Application Notes for anti-AKT3 antibody	IHC: 1:25-1:100
Related Product Information for anti-AKT3 antibody	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 describe
Other Notes	Small volumes of anti-AKT3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for AKT3 purchase	MBS8590662 is an antibody targeting AKT3. Also known as AKT3 Antibody. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for AKT3. It may not necessarily be applicable to this product.

NCBI GI #	4757579
NCBI GeneID	10000
NCBI Accession #	AAD29089.1
UniProt Primary Accession #	Q9Y243
UniProt Secondary Accession #	Q0VAA6; Q5VTI1; Q5VTI2; Q96QV3; Q9UFP5
UniProt Related Accession #	Q9Y243
NCBI Official Full Name	protein kinase B gamma
NCBI Official Synonym Full Names	v-akt murine thymoma viral oncogene homolog 3
NCBI Official Symbol	AKT3
NCBI Official Synonym Symbols	MPPH; PKBG; PRKBG; STK-2; PKB-GAMMA; RAC-gamma; RAC-PK-gamma
UniProt Protein Name	RAC-gamma serine/threonine-protein kinase
UniProt Synonym Protein Names	Protein kinase Akt-3; Protein kinase B gamma; PKB gamma; RAC-PK-gamma; STK-2
Protein Family	RAC-gamma serine/threonine-protein kinase
UniProt Gene Name	AKT3
UniProt Synonym Gene Names	PKBG; PKB gamma
UniProt Entry Name	AKT3_HUMAN
NCBI Protein Information	RAC-gamma serine/threonine-protein kinase; PKB gamma; RAC-gamma serine/threonine protein kinase; v-akt murine thymoma viral oncogene homolog 3 (protein kinase B, gamma)
NCBI Summary for AKT3	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]
UniProt Comments for AKT3	Akt3: an AGC kinase that plays a critical role in controlling the balance between survival and apoptosis. Stimulated by platelet-derived growth factor, insulin, and insulin-like growth factor 1. Alternatively spliced isoforms have been described. Protein type: Protein kinase, AGC; EC 2.7.11.1; Kinase, protein; Protein kinase, Ser/Thr (non-receptor); AGC group; AKT family Chromosomal Location of Human Ortholog: 1q44 Cellular Component: nucleoplasm; Golgi apparatus; cytoplasm; plasma membrane Molecular Function: protein serine/threonine kinase activity; protein binding; ATP binding; protein kinase activity Biological Process: mitochondrial genome maintenance; signal transduction; protein amino acid phosphorylation Disease: Megalencephaly-polymicrogyria-polydactyly-hydrocephalus Syndrome 2
Research Articles on AKT3	**1.** AKT3, ANGPTL4, eNOS3, and VEGFA associations with high altitude sickness in Han and Tibetan Chinese at the Qinghai-Tibetan Plateau.

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