

Rabbit Phospho-AKT3 (S472) Polyclonal Antibody | anti-AKT3 antibody

Phospho-AKT3 (S472) Antibody

CATALOG # AAA28777	HOST Rabbit	REACTIVITY Human Predicted: Mouse, Rat.	APPLICATIONS Dot Blot, ELISA
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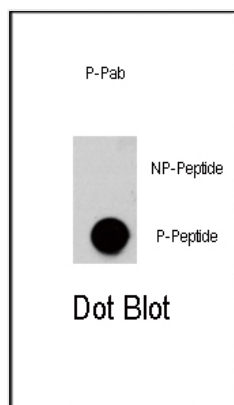
PRODUCT SYNONYMS

Phospho-AKT3 (S472); Polyclonal Antibody; Phospho-AKT3 (S472) Antibody; RAC-gamma serine/threonine-protein kinase; Protein kinase Akt-3; Protein kinase B gamma; PKB gamma; RAC-PK-gamma; STK-2; AKT3; PKBG; anti-AKT3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human Predicted: Mouse, Rat.
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This AKT3 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding S472 of human AKT3.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Sequence Length	465
Applicable Applications for anti-AKT3 antibody	DB (Dot Blot), ELISA
Application Notes	DB~~1:500
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles .

IMAGES



DB (Dot Blot)

Dot blot analysis of anti-AKT3-pS472 Phospho-specific Pab on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.5ug per ml.

ADDITIONAL INFORMATION

Related Product Information for anti-AKT3 antibody	AKT3 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). Function: AKT3 is one of 3 closely related serine/threonine- protein kinases (AKT1, AKT2 and AKT3) called the AKT kinase, and which regulate many processes including metabolism, proliferation, cell survival, growth and angiogenesis. This is mediated through serine and/or threonine phosphorylation of a range of downstream substrates. Over 100 substrate candidates have been reported so far, but for most of them, no isoform specificity has been reported. AKT3 is the least studied AKT isoform. It plays an important role in brain development and is crucial for the viability of malignant glioma cells. AKT3 isoform may also be the key molecule in up-regulation and down-regulation of MMP13 via IL13. Required for the coordination of mitochondrial biogenesis with growth factor-induced increases in cellular energy demands. Down-regulation by RNA interference reduces the expression of the phosphorylated form of BAD, resulting in the induction of caspase- dependent apoptosis.!!Cellular location Nucleus. Cytoplasm. Membrane; Peripheral membrane protein. Note=Membrane-associated after cell stimulation leading to its translocation.!!Tissue location In adult tissues, it is highly expressed in brain, lung and kidney, but weakly in heart, testis and liver. In fetal tissues, it is highly expressed in heart, liver and brain and not atall in kidney.
Product Categories/Family for anti-AKT3 antibody	Cancer; Cell Biology; Immunology; Signal Transduction; Amyotrophic Lateral Sclerosis (ALS)
References	Xu, Z., et al., Biochem. Biophys. Res. Commun. 312(2):388-396 (2003). Tiwari, G., et al., Mol. Cancer Res. 1(6):475-484 (2003). Brozinick, J.T. Jr., et al., Diabetes 52(4):935-941 (2003). Deregibus, M.C., et al., J. Biol. Chem. 277(28):25195-25202 (2002). Brodbeck, D., et al., J. Biol. Chem. 276(31):29550-29558 (2001).

NCBI AND UNIPROT INFORMATION

NCBI GI #	332078559
NCBI GeneID	10000
NCBI Accession #	NP_001193658.1; NP_005456.1; NP_859029.1
NCBI GenBank Nucleotide #	NM_001206729.1
UniProt Accession #	Q9Y243; Q0VAA6; Q5VT11; Q5VT12; Q96QV3; Q9UFP5
NCBI Official Full Name	RAC-gamma serine/threonine-protein kinase isoform 2
NCBI Official Synonym Full Names	v-akt murine thymoma viral oncogene homolog 3
NCBI Official Symbol	AKT3
NCBI Official Synonym Symbols	MPPH; PKBG; MPPH2; PRKBG; STK-2; PKB-GAMMA; RAC-gamma; RAC-PK-gamma
NCBI Protein Information	RAC-gamma serine/threonine-protein kinase
UniProt Protein Name	RAC-gamma serine/threonine-protein kinase
UniProt Gene Name	AKT3
UniProt Synonym Gene Names	PKBG; PKB gamma
UniProt Entry Name	AKT3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.