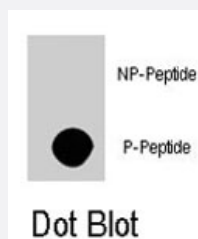


AKT3 (phospho S472) polyclonal antibody

Catalog # PAB8141

Size 400 uL

Applications



Dot Blot (Peptide)

Dot blot analysis of AKT3 (phospho S472) polyclonal antibody (Cat # PAB8141) on nitrocellulose membrane. 50 ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.5 ug/mL.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic phosphopeptide of AKT3.
Immunogen	Synthetic phosphopeptide (conjugated with KLH) corresponding to residues surrounding S472 of human AKT3.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Peptide affinity purification
Recommend Usage	ELISA (1:1000) Dot Blot (1:500) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Dot Blot (Peptide)

Dot blot analysis of AKT3 (phospho S472) polyclonal antibody (Cat # PAB8141) on nitrocellulose membrane. 50 ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.5 ug/mL.

Gene Info — AKT3

Entrez GeneID [10000](#)

Protein Accession# [NP_005456;Q9Y243](#)

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

Publication Reference

- [Transforming growth factor-beta1 stimulated protein kinase B serine-473 and focal adhesion kinase tyrosine phosphorylation dependent on cell adhesion in human hepatocellular carcinoma SMMC-7721 cells.](#)

Xu Z, Ma DZ, Wang LY, Su JM, Zha XL.

Biochemical and Biophysical Research Communications 2003 Dec; 312(2):388.

- [Defective signaling through Akt-2 and -3 but not Akt-1 in insulin-resistant human skeletal muscle: potential role in insulin resistance.](#)

Brozinick JT Jr, Roberts BR, Dohm GL.

Diabetes 2003 Apr; 52(4):935.

- [Gene expression profiling in prostate cancer cells with Akt activation reveals Fra-1 as an Akt-inducible gene.](#)

Tiwari G, Sakaue H, Pollack JR, Roth RA.

Molecular Cancer Research: MCR 2003 Apr; 1(6):475.

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](#)