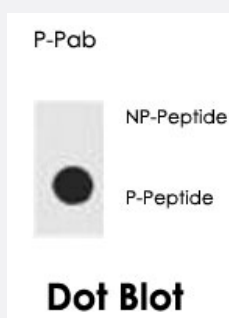


AKT1 (phospho S129) polyclonal antibody

Catalog # PAB2612 Size 400 uL

Applications



Dot Blot (Peptide)

Dot blot analysis of AKT1 (phospho S129) polyclonal antibody (Cat # PAB2612) on nitrocellulose membrane. 50 ng of phospho-peptide or non phospho-peptide per dot were adsorbed.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic phosphopeptide of AKT1.
Immunogen	Synthetic phosphopeptide (conjugated with KLH) corresponding to residues surrounding S129 of human AKT1.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Protein A purification
Recommend Usage	Dot Blot (1:~500) ELISA 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 up to 2 weeks. 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 AKT1 (phospho S129) polyclonal antibody (Cat # PAB2612) on nitrocellulose membrane. 50 ng of phospho-peptide or non phospho-peptide per dot were adsorbed.

Gene Info — AKT1

Entrez GeneID [207](#)

Protein Accession# [NP_005154; P31749](#)

Gene Name AKT1

Gene Alias AKT, MGC99656, PKB, PKB-ALPHA, PRKBA, RAC, RAC-ALPHA

Gene Description v-akt murine thymoma viral oncogene homolog 1

Omim ID [164730](#) [181500](#)

Gene Ontology [Hyperlink](#)

Gene Summary

The serine-threonine protein kinase encoded by the AKT1 gene is catalytically inactive in serum-starved primary and immortalized fibroblasts. AKT1 and the related AKT2 are activated by platelet-derived growth factor. The activation is rapid and specific, and it is abrogated by mutations in the pleckstrin homology domain of AKT1. It was shown that the activation occurs through phosphatidylinositol 3-kinase. In the developing nervous system AKT is a critical mediator of growth factor-induced neuronal survival. Survival factors can suppress apoptosis in a transcription-independent manner by activating the serine/threonine kinase AKT1, which then phosphorylates and inactivates components of the apoptotic machinery. Multiple alternatively spliced transcript variants have been found for this gene. [provided by RefSeq]

Other Designations

RAC-alpha serine/threonine-protein kinase|murine thymoma viral (v-akt) oncogene homolog-1|protein kinase B|rac protein kinase alpha

Publication Reference

- [Akt is a major angiogenic mediator downstream of the Ang1/Tie2 signaling pathway.](#)

DeBusk LM, Hallahan DE, Lin PC.

Experimental Cell Research 2004 Aug; 298(1):167.

- [EGF-dependent cell cycle progression is controlled by density-dependent regulation of Akt activation.](#)

LeVea CM, Reeder JE, Mooney RA.

Experimental Cell Research 2004 Jul; 297(1):272.

- [Phosphorylation of tau at THR212 and SER214 in human neuronal and glial cultures: the role of AKT.](#)

Kyoung Pyo H, Lovati E, Pasinetti GM, Ksiezak-Reding H.

Neuroscience 2004 Jan; 127(3):649.

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](#)
- [Alzheimer disease](#)
- [Amphetamine-Related Disorders](#)
- [Atherosclerosis](#)
- [Basal Ganglia Diseases](#)
- [Bipolar Disorder](#)
- [Breast Neoplasms](#)
- [Calcinosis](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)

- [Cognition](#)
- [Colonic Neoplasms](#)
- [Colorectal Neoplasms](#)
- [Coronary Artery Disease](#)
- [Depressive Disorder](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Disease Susceptibility](#)
- [Dominance](#)
- [Drug Toxicity](#)
- [Dyskinesia](#)
- [Edema](#)
- [Endometrial Neoplasms](#)
- [Endometriosis](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
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- [Lung Neoplasms](#)
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- [Neoplasm Metastasis](#)
- [Neoplasm Recurrence](#)

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- [Ovarian Neoplasms](#)
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- [Polycystic Ovary Syndrome](#)
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- [Thyroid Neoplasms](#)
- [Tobacco Use Disorder](#)
- [Tuberculosis](#)
- [Urinary Bladder Neoplasms](#)
- [Verbal Learning](#)

- [Werner syndrome](#)