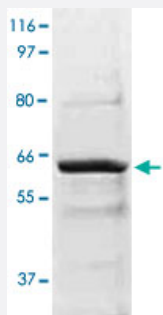


AKT2 polyclonal antibody

Catalog # PAB12651 Size 100 ug

Applications



Western Blot (Cell lysate)

The cell lysate derived from HeLa was immunoblotted by AKT2 polyclonal antibody (Cat # PAB12651) at 1 : 500.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of AKT2.
Immunogen	A synthetic peptide corresponding to amino acids 455-469 of human AKT2.
Host	Rabbit
Theoretical MW (kDa)	60
Reactivity	Human, Mouse, Rat
Specificity	This antibody only recognizes ~60 KDa of human AKT2, not AKT1 or AKT3. It also reacts with mouse and rat AKT2 protein.
Form	Liquid
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	Western Blot (0.1-1 ug/mL) ELISA (0.01-0.1 ug/mL) Immunoprecipitation (2-5 ug/mL) Immunohistochemistry (0.5-2 ug/mL) The optimal working dilution should be determined by the end user.

Storage Buffer

In TBS, pH 7.2 (BSA, 10% Proclin300)

Storage Instruction

Store at 4°C. For long term storage store at -20°C or lower.
Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

The cell lysate derived from HeLa was immunoblotted by AKT2 polyclonal antibody (Cat # PAB12651) at 1 : 500.

- Immunohistochemistry

- Immunoprecipitation

- Enzyme-linked Immunoabsorbent Assay

Gene Info — AKT2

Entrez GeneID[208](#)**Gene Name**

AKT2

Gene Alias

PKBB, PKBBETA, PRKBB, RAC-BETA

Gene Description

v-akt murine thymoma viral oncogene homolog 2

Omim ID[125853 164731](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

This gene is a putative oncogene encoding a protein belonging to a subfamily of serine/threonine kinases containing SH2-like (Src homology 2-like) domains. The gene was shown to be amplified and overexpressed in 2 of 8 ovarian carcinoma cell lines and 2 of 15 primary ovarian tumors. Overexpression contributes to the malignant phenotype of a subset of human ductal pancreatic cancers. The encoded protein is a general protein kinase capable of phosphorylating several known proteins. [provided by RefSeq]

Other Designations

Murine thymoma viral (v-akt) homolog-2|rac protein kinase beta

Publication Reference

- [Phosphatidylinositol-3-OH Kinase \(PI3K\)/AKT2, activated in breast cancer, regulates and is induced by estrogen receptor alpha \(ERalpha\) via interaction between ERalpha and PI3K.](#)

Sun M, Paciga JE, Feldman RI, Yuan Z, Coppola D, Lu YY, Shelley SA, Nicosia SV, Cheng JQ.

Cancer Research 2001 Aug; 61(16):5985.

Application: IP, WB, Human, Human breast tumor specimens

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](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Drug Toxicity](#)
- [Edema](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [HIV Infections](#)
- [Hypercholesterolemia](#)
- [Insulin Resistance](#)
- [Lipodystrophy](#)
- [Lung Neoplasms](#)
- [Metabolic Syndrome X](#)
- [Neoplasms](#)

- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Polycystic Ovary Syndrome](#)
- [Psychiatric Status Rating Scales](#)
- [Schizophrenia](#)
- [Thyroid Neoplasms](#)