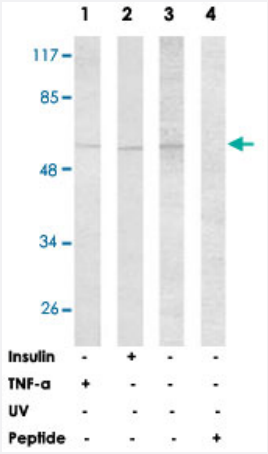
AKT2 polyclonal antibody

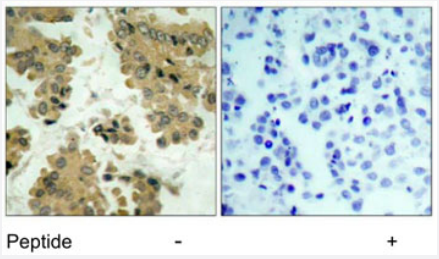
Catalog # PAB18079 Size 100 ug

Applications



Western Blot (Cell lysate)

Western blot analysis of extracts from A2780 (Lane 1), 293 (Lane 2) and LOX (Lane 3 and lane 4) using AKT2 polyclonal antibody (Cat # PAB18079). Peptide "+" means "with peptide blocking".



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human lung carcinoma tissue using AKT2 polyclonal antibody (Cat # PAB18079).
Peptide "+" means "with peptide blocking".

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of AKT2.
Immunogen	A synthetic peptide corresponding to residues surrounding S474 of human AKT2.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Specificity	This antibody is specific to AKT2.

Form	Liquid
Recommend Usage	Western Blot (1:500~1:1000) Immunohistochemistry (1:50~1:100) ELISA(1:10000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, 150mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

  Western blot analysis of extracts from A2780 (Lane 1), 293 (Lane 2) and LOX (Lane 3 and lane 4) using AKT2 polyclonal antibody (Cat # PAB18079).
  Peptide "+" means "with peptide blocking".

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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- Immunohistochemistry

- Enzyme-linked Immunoabsorbent Assay

Gene Info — AKT2

Entrez GeneID	208
Protein Accession#	P31751
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. Ove rexpression contributes to the malignant phenotype of a subset of human ductal pancreatic cancer s. The encoded protein is a general protein kinase capable of phophorylating several known prote ins. [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

- Frequent activation of AKT2 and induction of apoptosis by inhibition of phosphoinositide-3-OH kinase/Akt pathway in human ovarian cancer.

  Yuan ZQ, Sun M, Feldman RI, Wang G, Ma X, Jiang C, Coppola D, Nicosia SV, Cheng JQ.

  Oncogene 2000 May; 19(19):2324.

  Application: IHC, WB-Ti, Human, Ovarian carcinoma

- Mitogenic activation, phosphorylation, and nuclear translocation of protein kinase Bbeta.

  Meier R, Alessi DR, Cron P, Andjelkovic M, Hemmings BA.

  The Journal of Biological Chemistry 1997 Nov; 272(48):30491.

  Application: IP, WB-Tr, Human, HEK 293 cells

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