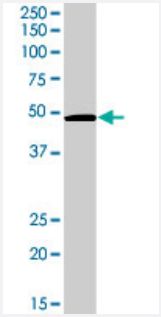
AKT2 (phospho S474) polyclonal antibody

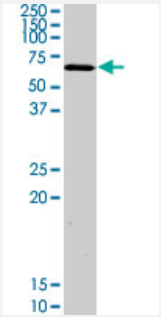
Catalog # PAB8183 Size 100 uL

Applications



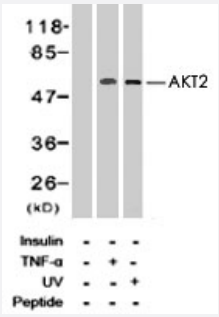
Western Blot (Tissue lysate)

Phospho-AKT2 Ser474 polyclonal antibody. Western blot analysis of AKT2 expression in human kidney.



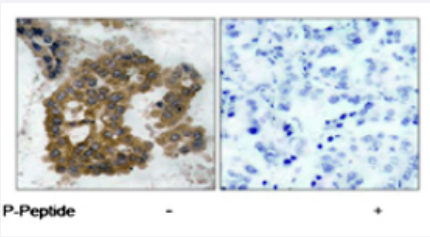
Western Blot (Cell lysate)

Phospho-AKT2 Ser474 polyclonal antibody. Western blot analysis of AKT2 expression in Jurkat.



Western Blot (Cell lysate)

Western blot analysis of extract from A2780 cells using AKT2 (phospho S474) polyclonal antibody (Cat # PAB8183).



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

Immunohistochemical analysis of paraffin-embedded human lung carcinoma tissue using AKT2 (phospho S474) polyclonal antibody (Cat # PAB8183).

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic phosphopeptide of AKT2.
Immunogen	Synthetic phosphopeptide corresponding to residues surrounding S474 of human AKT2.
Host	Rabbit
Theoretical MW (kDa)	60
Reactivity	Human, Mouse, Rat
Specificity	Akt2 (phospho-Ser474) antibody detects endogenous levels of Akt2 only when phosphorylated at serine 474.
Form	Liquid
Purification	Immunoaffinity purification
Concentration	1 mg/mL
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	Immunohistochemistry (1:50-1:100) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (without Mg^{2+} and Ca^{2+}), 150 mM 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 should be handled by trained staff only.

Applications

- Western Blot (Tissue lysate)

  Phospho-AKT2 Ser474 polyclonal antibody. Western blot analysis of AKT2 expression in human kidney.

  Protocol Download

- Western Blot (Cell lysate)

  Phospho-AKT2 Ser474 polyclonal antibody. Western blot analysis of AKT2 expression in Jurkat.

  Protocol Download

- Western Blot (Cell lysate)

  Western blot analysis of extract from A2780 cells using AKT2 (phospho S474) polyclonal antibody (Cat # PAB8183).

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

  Immunohistochemical analysis of paraffin-embedded human lung carcinoma tissue using AKT2 (phospho S474) polyclonal antibody (Cat # PAB8183).

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. 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

- Chard (Beta vulgaris L. var. cicla) extract ameliorates hyperglycemia by increasing GLUT2 through Akt2 and antioxidant defense in the liver of rats.

  Gezginci-Oktayoglu S, Sacan O, Bolkent S, Ipci Y, Kabasakal L, Sener G, Yanardag R.

  Acta Histochemica 2014 Jan; 116(1):32.

  Application: IS, Rat, Liver

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