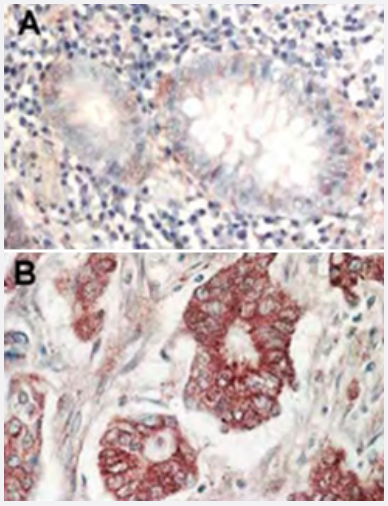
AKT1 polyclonal antibody

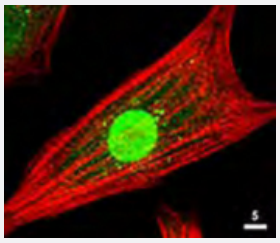
Catalog # PAB9931 Size 200 uL

Applications



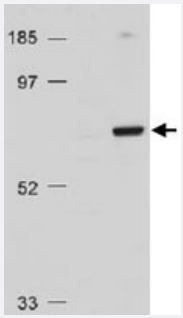
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

AKT1 polyclonal antibody (Cat # PAB9931) was used at a 1 : 1,000 dilution to detect AKT1 by immunohistochemistry. In panel (A) normal colon tissue is stained. Panel (B) shows tumor tissue. Tissue was formalin-fixed and paraffin embedded.



Immunofluorescence

Immunofluorescence microscopy of AKT1 polyclonal antibody (Cat # PAB9931) was used at a 1 : 80 dilution to stain cultured neonatal rat cardiomyocytes that express a nuclear-targeted AKT1 construct. AKT1 polyclonal antibody (Cat # PAB9931) staining appears green. Actin filaments are labeled red using a Texas-red conjugated phalloidin.



Western Blot (Cell lysate)

Immunoblotting of AKT1 polyclonal antibody (Cat # PAB9931) was used at a 1 : 500 dilution to detect AKT1 by Western blot.
Approximately 20 ug of an NIH/3T3 whole cell lysate was loaded on a 10% NuPage SDS-PAGE gel using MOPS buffer.
After washing, a 1 : 10,000 dilution of HRP conjugated Gt-a-Rabbit IgG preceded color development using Pierce Chemical's Super Signal™ substrate.

Copyright © 2023 Abnova Corporation. All Rights Reserved.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of AKT1.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to amino acids 460-480 of AKT1.
Sequence	CRPHFPQFSYSASGTA
Host	Rabbit
Reactivity	Chicken, Human, Mouse, Rat
Form	Liquid
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	ELISA (1:2000-1:10000) Western Blot (1:500-1:2000) Immunohistochemistry (1:500-1:2000) Immunofluorescence (1:100-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 20 mM KH_2PO_4, 150 mM NaCl, pH 7.2 (0.1% 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 shoul d be handled by trained staff only.

Applications

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

  AKT1 polyclonal antibody (Cat # PAB9931) was used at a 1 : 1,000 dilution to detect AKT1 by immunohistochemistry. In panel (A) normal colon tissue is stained. Panel (B) shows tumor tissue. Tissue was formalin-fixed and paraffin embedded.

- Immunofluorescence

  Immunofluorescence microscopy of AKT1 polyclonal antibody (Cat # PAB9931) was used at a 1 : 80 dilution to stain cultured neonatal rat cardiomyocytes that express a nuclear-targeted AKT1 construct. AKT1 polyclonal antibody (Cat # PAB9931) staining appears green. Actin filaments are labeled red using a Texas-red conjugated phalloidin.

- Enzyme-linked Immunoabsorbent Assay

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- Western Blot (Cell lysate)

  Immunoblotting of AKT1 polyclonal antibody (Cat # PAB9931) was used at a 1 : 500 dilution to detect AKT1 by Western blot. Approximately 20 ug of an NIH/3T3 whole cell lysate was loaded on a 10% NuPage SDS-PAGE gel using MOPS buffer. After washing, a 1 : 10,000 dilution of HRP conjugated Gt-a-Rabbit IgG preceded color development using Pierce Chemical's Super Signal™ substrate.

Publication Reference

- PKB/Akt: a key mediator of cell proliferation, survival and insulin responses?

  Lawlor MA, Alessi DR.

  Journal of Cell Science 2001 Aug; 114(Pt 16):2903.

  Application: IHC, WB-Tr, Human, Cancers, Mammalian cells

- Discovery of PDK1, one of the missing links in insulin signal transduction. Colworth Medal Lecture.

  Alessi DR.

  Biochemical Society Transactions 2001 May; 29(Pt 2):1.

Copyright © 2023 Abnova Corporation. All Rights Reserved.