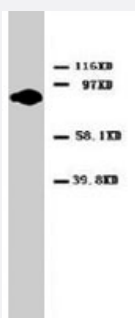


PRKCA polyclonal antibody

Catalog # PAB8003

Size 100 ug

Applications



Western Blot (Cell lysate)

Western blot analysis of HeLa cell lysate. Using PRKCA polyclonal antibody (Cat # PAB8003) .

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of PRKCA.
Immunogen	A synthetic peptide corresponding to amino acids at C-terminus of human PRKCA.
Host	Rabbit
Theoretical MW (kDa)	76.7
Reactivity	Human, Mouse, Rabbit, Rat
Form	Lyophilized
Purification	Affinity purification
Isotype	IgG
Recommend Usage	Western Blot (1-2 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (0.5-1 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ (5 mg BSA, 0.05 mg sodium azide, 0.05 mg Thimerosal)

Storage Instruction

Store at -20°C on dry atmosphere.

After reconstitution with 200 uL of deionized water and concentration will be 500 ug/mL, store at -20°C or lower.

Aliquot to avoid repeated freezing and thawing.

Note

This product contains sodium azide and thimerosal: POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western blot analysis of HeLa cell lysate. Using PRKCA polyclonal antibody (Cat # PAB8003) .

Gene Info — PRKCA

Entrez GeneID[5578](#)**Gene Name**

PRKCA

Gene Alias

AAG6, MGC129900, MGC129901, PKC-alpha, PKCA, PRKACA

Gene Description

protein kinase C, alpha

Omim ID[176960](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

Protein kinase C (PKC) is a family of serine- and threonine-specific protein kinases that can be activated by calcium and the second messenger diacylglycerol. PKC family members phosphorylate a wide variety of protein targets and are known to be involved in diverse cellular signaling pathways. PKC family members also serve as major receptors for phorbol esters, a class of tumor promoters. Each member of the PKC family has a specific expression profile and is believed to play a distinct role in cells. The protein encoded by this gene is one of the PKC family members. This kinase has been reported to play roles in many different cellular processes, such as cell adhesion, cell transformation, cell cycle checkpoint, and cell volume control. Knockout studies in mice suggest that this kinase may be a fundamental regulator of cardiac contractility and Ca(2+) handling in myocytes. [provided by RefSeq]

Other Designations

aging-associated gene 6|protein kinase C alpha type

Publication Reference

- [PKC-alpha regulates cardiac contractility and propensity toward heart failure.](#)

Braz JC, Gregory K, Pathak A, Zhao W, Sahin B, Klevitsky R, Kimball TF, Lorenz JN, Nairn AC, Liggett SB, Bodi I, Wang S, Schwartz A, Lakatta EG, DePaoli-Roach AA, Robbins J, Hewett TE, Bibb JA, Westfall MV, Kranias EG, Molkentin JD.

Nature Medicine 2004 Mar; 10(3):248.

Application: WB-Ti, Mouse, Heart

- [Refinement of localization of the human genes for myeloperoxidase \(MPO\), protein kinase C, alpha polypeptide, PRKCA, and the DNA fragment D17S21 on chromosome 17q.](#)

Latos-Bielenska A, Klett C, Just W, Hameister H.

Hereditas 1991 Jan; 115(1):69.

Pathway

- [Calcium signaling pathway](#)
- [ErbB signaling pathway](#)
- [Fc epsilon RI signaling pathway](#)
- [Fc gamma R-mediated phagocytosis](#)
- [Focal adhesion](#)
- [Gap junction](#)
- [Glioma](#)
- [GnRH signaling pathway](#)
- [Leukocyte transendothelial migration](#)
- [Long-term depression](#)
- [Long-term potentiation](#)
- [MAPK signaling pathway](#)
- [Melanogenesis](#)
- [Natural killer cell mediated cytotoxicity](#)
- [Non-small cell lung cancer](#)
- [Pathogenic Escherichia coli infection - EHEC](#)

- [Pathways in cancer](#)
- [Phosphatidylinositol signaling system](#)
- [Tight junction](#)
- [Vascular smooth muscle contraction](#)
- [VEGF signaling pathway](#)
- [Vibrio cholerae infection](#)
- [Wnt signaling pathway](#)

Disease

- [Adenocarcinoma](#)
- [Asthma](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Liver Cirrhosis](#)
- [Mental Disorders](#)
- [Multiple Sclerosis](#)
- [Obesity](#)
- [Pancreatic Neoplasms](#)
- [Premature Birth](#)
- [Schizophrenia](#)
- [Tobacco Use Disorder](#)
- [Vaginitis](#)