

DATASHEET

Version: 2016-08-17

PKC μ Antibody, pAb, Rabbit**Cat. No.:** A00909-40**Size:** 40 μ g**Synonyms:** Rabbit Anti-PKC μ pAb;**Description:**

Protein kinase C (PKC, EC 2.7.11.13) is a cyclic, nucleotide-independent enzyme that phosphorylates serine and threonine residues. The PKC family is divided into three groups depending on each the enzymes cofactor requirements: conventional (c)PKC isoforms (α , β I, β II, and γ) require diacylglycerol (DAG), Ca^{2+} , and phospholipids for activation; novel (n)PKC isoforms (δ , ϵ , η (also known as PKC-L), θ , and μ the mouse homolog of human PKC μ (also known as PKD)) require DAG but not Ca^{2+} for activation; and atypical (a)PKC isoforms, (ζ , ι , and λ , the mouse homolog of human PKC ι) require neither Ca^{2+} nor DAG. A new PKC member has recently been discovered and is referred to as PKC ν .

PKCs phosphorylate a wide variety of protein targets and are known to be involved in diverse cellular signaling pathways. These kinases also serve as major receptors for phorbol esters, a class of tumor promoters. Every member of the PKC family has a specific expression profile and is believed to play a distinct role in cells.

PKC μ , also known as nPKC-D1 and nPKC-mu, is a member of PKC family of serine/threonine kinases. PKC μ has two characteristic cysteine-rich repeats, a conserved ATP-binding consensus sequence in the kinase domain, and the invariable aspartate essential for kinase activity.

GenScript **Rabbit Anti-PKC μ Polyclonal Antibody** is developed in rabbit using a KLH-coupled synthetic peptide corresponding to residues of human PKC μ protein.

Immunogen: Synthetic peptide (KLH-coupled) corresponding to residues of human PKC μ protein.

Host: Rabbit**Antigen Synonyms:** Human**Example****Conjugation:** Unconjugated**Formulation:**

0.5 mg/ml, lyophilized with PBS, pH 7.4, containing 0.02% sodium azide

Ig Subclass: Rabbit IgG

Specificity: GenScript Rabbit Anti-PKC μ Polyclonal Antibody detects endogenous levels of human and mouse PKC μ protein. No cross-reactivity to other PKC isoforms is detected.

Purification: Immunoaffinity chromatography**Applications:**

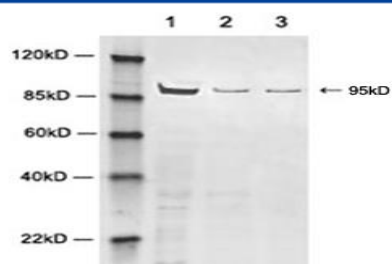
Working concentrations for specific applications should be determined by the investigator. The appropriate concentrations may be affected by secondary antibody affinity, antigen concentration, the sensitivity of the method of detection, temperature, the length of the incubations, and other factors. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

ELISA: 0.05-0.2 μ g/ml**Western blot:** 0.5-2 μ g/ml**Other applications:** user-optimized**Species Reactivity:** Human, mouse**Reconstitution:**

Reconstitute the lyophilized powder with deionized water (or equivalent) to an final concentration of 0.5 mg/ml.

Storage:

The antibody is stable in lyophilized form if stored at -20°C or below. The reconstituted antibody can be stored for 2-3 weeks at $2-8^{\circ}\text{C}$. For long term storage, aliquot and store at -20°C or below. Avoid repeated freezing and thawing cycles.



Western blot analysis of cell lysates using 2 μ g/ml Rabbit Anti-PKC μ Polyclonal Antibody (GenScript, A00909)

Lane 1: Hela cell lysate

Lane 2: HEK-293 cell lysate

Lane 3: NIH/3T3 cell lysate

The signal was developed with IRDyeTM 800 Conjugated Goat Anti-Rabbit IgG.