

Anti-PKC Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

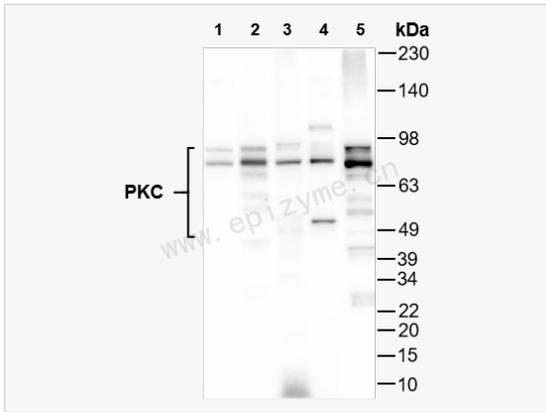
Catalog # R015032

Product Information

Application	WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	48F90H25
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human PKC
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-PKC Rabbit mAb [48F90H25] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	KPCA_HUMAN, PKC alpha, PKC beta, PKC delta, PKC epsilon, PKC gamma, PKC zeta, PKC-A, PKC-alpha, PKC2, PKCA, PKCB, PKCD, PKCE, PKCG, PRKCA, PRKCB, PRKCB1, PRKCB2, PRKCD, PRKCE, PRKCG, PRKCZ, Protein kinase C alpha, Protein kinase C alpha type, Protein kinase C, Protein kinase C beta, Protein kinase C delta, Protein kinase C epsilon, Protein kinase C gamma, Protein kinase C zeta.
Calculated MW	Calculated MW: 37,40,68-84 kDa; Observed MW: 37,40,68-84 kDa
Uniprot ID	P05129, P05771, P17252, Q02156, Q05513, Q05655, P23298
Gene ID	5582, 5579, 5578, 5581, 5590, 5580, 18755
Background	Protein kinase C (PKC) is a family of serine- and threonine-specific protein kinases that can be activated by calcium and 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 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 distinct roles in cells. The protein encoded by this gene is one of the PKC family members. This protein kinase is expressed solely in the brain and spinal cord and its localization is restricted to neurons. It has been demonstrated that several neuronal functions, including long term potentiation (LTP) and long term depression (LTD), specifically require this kinase. Knockout studies in mice also suggest that this kinase may be involved in neuropathic pain development. Defects in this protein have been associated with neurodegenerative disorder spinocerebellar ataxia-14 (SCA14). Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2015]
Cellular Location	Cytoplasm. Cell membrane. Mitochondrion membrane. Nucleus.



Western Blot - Anti-PKC Rabbit mAb [48F90H25]

All lanes: R015032 at 1:1,000 dilution

Lane 1 : HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates

Lane 2 : Jurkat (Human T lymphocytic leukemia cell) whole cell lysates

Lane 3 : Mouse heart whole tissue lysates

Lane 4 : Mouse brain whole tissue lysates

Lane 5 : Raw264.7 (Mouse mononuclear macrophage leukemia cell) whole cell lysates

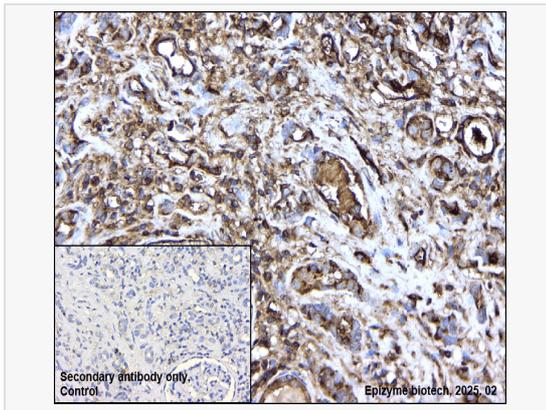
Lysates/proteins at 10 µg per lane.

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 37,40,68-84 kDa

Observed band size: 37,40,68-84 kDa

Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-PKC Rabbit mAb [48F90H25]

Sample: Paraformaldehyde-fixed, paraffin embedded human renal carcinoma tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R015032 at 1:200 dilution

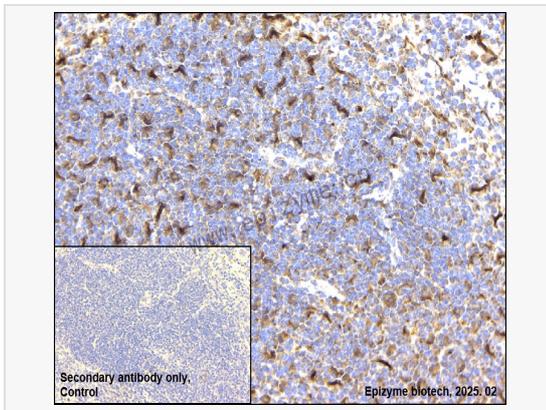
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-PKC Rabbit mAb [48F90H25]

Sample: Paraformaldehyde-fixed, paraffin embedded mouse spleen tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R015032 at 1:200 dilution

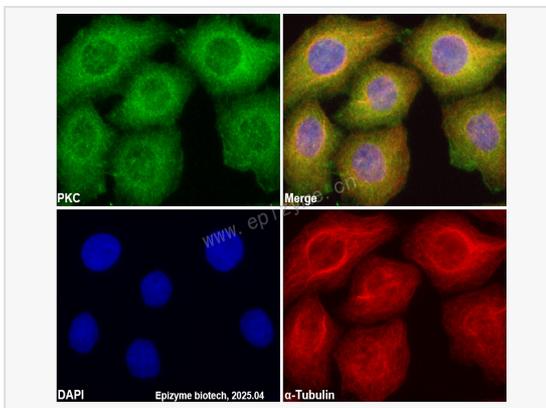
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.



Immunofluorescence - Anti-PKC Rabbit mAb [48F90H25]

Sample: HeLa cells

The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.

Primary antibodies: R015032 at 1:100 dilution and α-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution

Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and

Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)

Nuclei were stained with DAPI (shown in blue).