

Anti-PKC Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

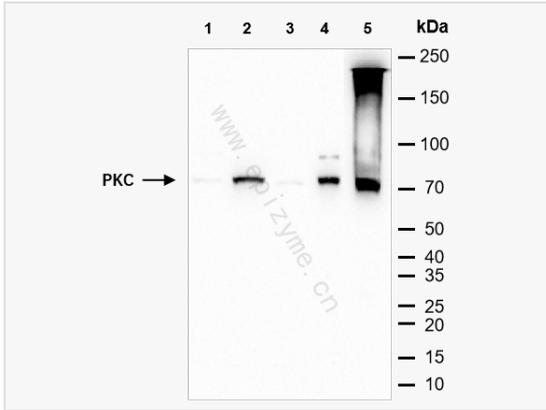
Catalog # R014277

Product Information

Application	IHC-P/IF (Tissue-P), IF (Cell)/ICC, WB, ELISA
Reactivity	Human, Mouse
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.	21R58J41
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 [21R58J41] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	AAG6, Aging associated gene 6, aPKC, KPCA_HUMAN, PKC alpha, PKC-A, PKC-alpha, PKCA, PRKACA, PRKCA, Protein Kinase C alpha, Protein kinase C alpha type.
Calculated MW	Calculated MW: 37 kDa, 40 kDa, 68-84 kDa; Observed MW: 77 kDa
Uniprot ID	P05129, P05771, P17252, Q02156, Q05513, Q05655
Gene ID	5582, 5579, 5578, 5581, 5590, 5580
Background	Calcium-activated, phospholipid- and diacylglycerol (DAG)-dependent serine/threonine-protein kinase that is involved in positive and negative regulation of cell proliferation, apoptosis, differentiation, migration and adhesion, tumorigenesis, cardiac hypertrophy, angiogenesis, platelet function and inflammation, by directly phosphorylating targets such as RAF1, BCL2, CSPG4, TNNT2/CTNT, or activating signaling cascade involving MAPK1/3 (ERK1/2) and RAP1GAP.
Cellular Location	Cytoplasm. Cell membrane. Nucleus.



Western Blot - Anti-PKC Rabbit mAb [21R58J41]

All lanes: R014277 at 1:1,000 dilution

Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates

Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates

Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates

Lane 4: T24 (Human bladder cancer epithelial cell) whole cell lysates

Lane 5: Mouse heart whole tissue lysates

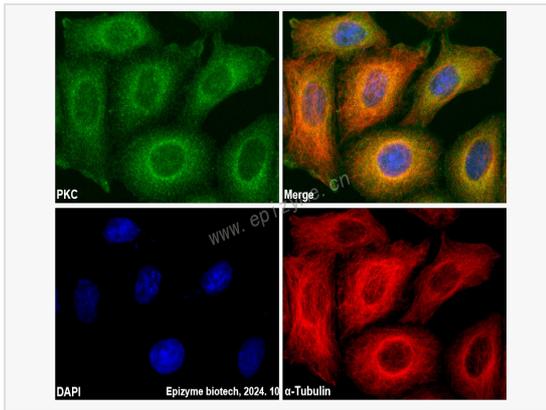
Lysates/proteins at 10 µg per lane.

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

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

Observed band size: 77 kDa

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



Immunofluorescence - Anti-PKC Rabbit mAb [21R58J41]

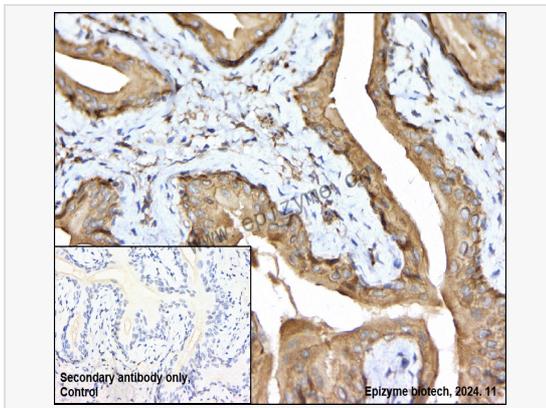
Sample: HeLa cells

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: R014277 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).



Immunohistochemistry - Anti-PKC Rabbit mAb [21R58J41]

Sample: Paraformaldehyde-fixed, paraffin embedded rat bladder tissue

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

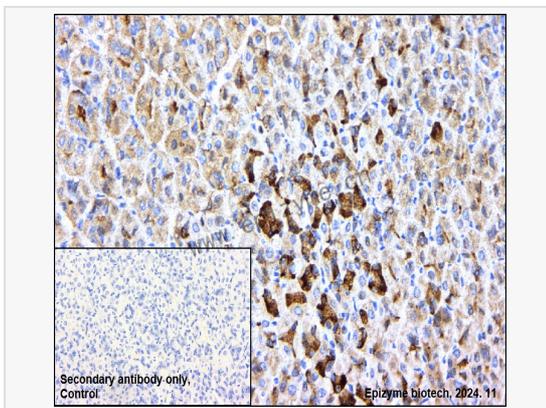
Primary antibody: R014277 at 1:200 dilution

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 [21R58J41]

Sample: Paraformaldehyde-fixed, paraffin embedded mouse stomach tissue

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

Primary antibody: R014277 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.