

Anti-PRKACA Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

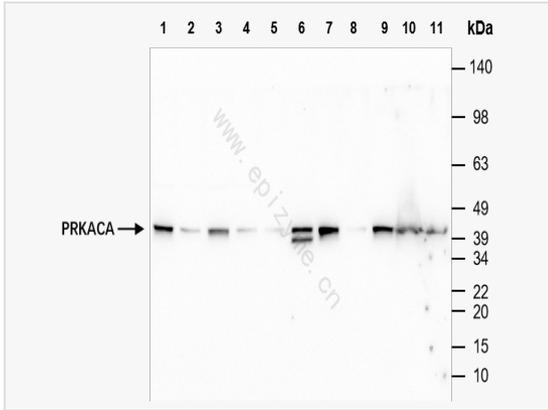
Catalog # R015097

Product Information

Application	WB, IHC-P/IF (Tissue-P), ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:5,000; IHC-P 1:2,000~1:10,000; IF 1:200~1:1,000
Host	Rabbit
Clonality	Monoclonal
Clone No.	90P12P84
Isotype	IgG
Label	Unconjugated
Immunogen	Recombinant protein of human PRKACA
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-PRKACA Rabbit mAb [90P12P84] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	cAMP Protein Kinase Catalytic subunit, cAMP dependent protein kinase alpha catalytic subunit, cAMP dependent protein kinase beta catalytic subunit, cAMP dependent protein kinase catalytic beta subunit isoform 4ab, cAMP dependent protein kinase catalytic subunit alpha, cAMP dependent protein kinase catalytic subunit alpha, isoform I, cAMP dependent protein kinase catalytic subunit beta, DKFZp78112452, MGC102831, MGC41879, MGC48865, MGC9320, PKA C alpha, PKA C beta, PKACA, PKACB, PRKACB, Protein kinase A catalytic subunit alpha, Protein kinase A catalytic subunit, Protein kinase A catalytic subunit beta, Protein kinase cAMP dependent catalytic alpha, Protein kinase cAMP dependent catalytic beta, Protein kinase, cAMP dependent, catalytic, alpha, Protein kinase, cAMP dependent, catalytic, beta.
Calculated MW	Calculated MW: 40 kDa; Observed MW: 40 kDa
Uniprot ID	P17612
Gene ID	5566
Background	This gene encodes one of the catalytic subunits of protein kinase A, which exists as a tetrameric holoenzyme with two regulatory subunits and two catalytic subunits, in its inactive form. cAMP causes the dissociation of the inactive holoenzyme into a dimer of regulatory subunits bound to four cAMP and two free monomeric catalytic subunits. Four different regulatory subunits and three catalytic subunits have been identified in humans. cAMP-dependent phosphorylation of proteins by protein kinase A is important to many cellular processes, including differentiation, proliferation, and apoptosis. Constitutive activation of this gene caused either by somatic mutations, or genomic duplications of regions that include this gene, have been associated with hyperplasias and adenomas of the adrenal cortex and are linked to corticotropin-independent Cushing's syndrome. Alternative splicing results in multiple transcript variants encoding different isoforms. Tissue-specific isoforms that differ at the



Western Blot - Anti-PRKACA Rabbit mAb [90P12P84]

All lanes: R015097 at 1:2,000 dilution

- Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
- Lane 2: A431 (Human epidermoid teratoma cell line) 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: 293T (Human embryonic kidney cell) whole cell lysates
- Lane 6: C2C12 (Mouse myoblasts epithelial cell) whole cell lysates
- Lane 7: Mouse brain whole tissue lysates
- Lane 8: Mouse liver whole tissue lysates
- Lane 9: PC-12 (Rat adrenal pheochromocytoma epithelial cell) whole cell lysates
- Lane 10: Rat brain whole tissue lysates
- Lane 11: Rat liver whole tissue lysates

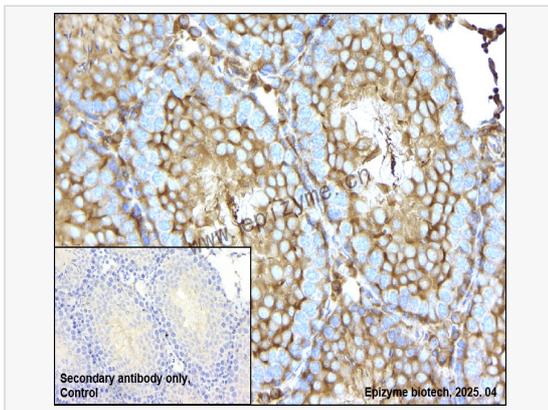
Lysates/proteins at 10 µg per lane.

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

Predicted band size: 40 kDa

Observed band size: 40 kDa

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



Immunohistochemistry - Anti-PRKACA Rabbit mAb [90P12P84]

Sample: Paraformaldehyde-fixed, paraffin embedded rat testis tissue

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

Primary antibody: R015097 at 1:6,000 dilution

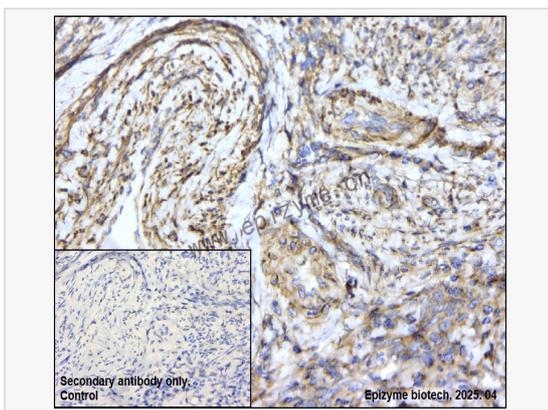
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

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-PRKACA Rabbit mAb [90P12P84]

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

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

Primary antibody: R015097 at 1:6,000 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.