Anti-PKA RII alpha Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R016126

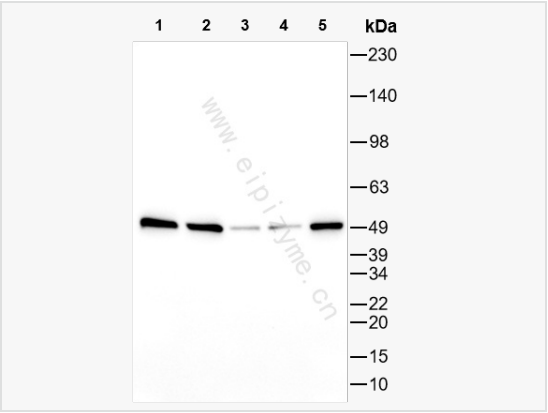
Product Information

Application	WB, IHC-P/IF (Tissue-P), ELISA
Reactivity	Human
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.	73N94I80
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human PKA R2
Format	Affinity purified monoclonal antibody supplied in PBS with 0.02% 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-PKA RII alpha Rabbit mAb [73N94I80] is for research use only and not for use in diagnostic or therapeutic procedures.

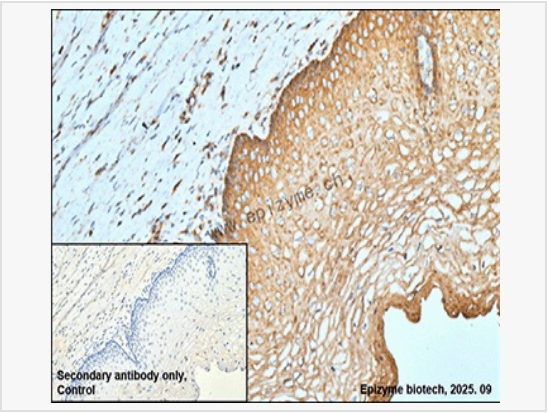
Protein Information

Synonyms	PKA R2 (phospho-Ser96); phospho-PKA R2 (Ser96); phospho-PKA R2 (Ser99); KAP2; KAP2_HUMAN; MGC3606; PKR 2; PKR2; PRKA R2; PRKAR 2; PRKAR2; PRKAR2A; Protein kinase A RII alpha subunit; Protein kinase cAMP dependent regulatory type II alpha; cAMP dependent protein kinase regulatory subunit alpha 2; cAMP dependent protein kinase regulatory subunit RII alpha; cAMP dependent protein kinase type II alpha regulatory chain; cAMP dependent protein kinase type II alpha regulatory subunit; cAMP-dependent protein kinase type II-alpha regulatory subunit; phospho-PKA R2 (Ser98)(human).
Calculated MW	Calculated MW: 46 kDa; Observed MW: 50 kDa
Uniprot ID	P13861
Gene ID	5576
Background	cAMP is a signaling molecule important for a variety of cellular functions. cAMP exerts its effects by activating the cAMP-dependent protein kinase, which transduces the signal through phosphorylation of different target proteins. The inactive kinase holoenzyme is a tetramer composed of two regulatory and two catalytic subunits. 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. The protein encoded by this gene is one of the regulatory subunits. This subunit can be phosphorylated by the activated catalytic subunit. It may interact with various A-kinase anchoring proteins and determine the subcellular localization of cAMP-dependent protein kinase. This subunit has been shown to regulate protein transport from endosomes to the Golgi apparatus and further to the endoplasmic reticulum (ER). [provided by RefSeq, Jul 2008]
Cellular Location	Cytoplasm Cell membrane Colocalizes with PJA2 in the cytoplasm and the cell membrane.

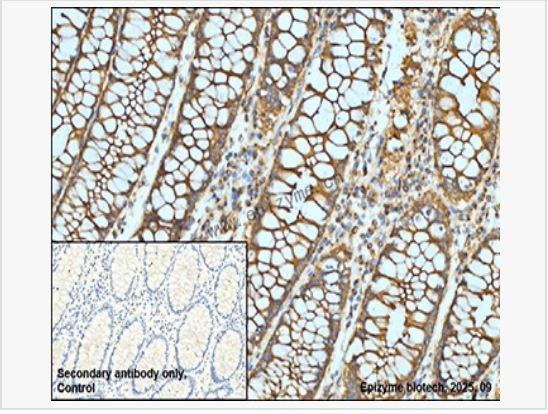
Validation Images



Western Blot - Anti-PKA RII alpha Rabbit mAb [73N94I80]
All lanes: R016126 at 1:2,000 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: MCF-7 (human breast adenocarcinoma epithelial cell) whole cell lysates
Lane 5: U87 (Human malignant glioblastoma epithelial cells) 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: 46 kDa
Observed band size: 50 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-PKA RII alpha Rabbit mAb [73N94I80]
Sample: Paraformaldehyde-fixed, paraffin embedded human cervical cancer tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R016126 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-PKA RII alpha Rabbit mAb [73N94I80]
Sample: Paraformaldehyde-fixed, paraffin embedded human colonic cancer tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R016126 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.