Rabbit PKA R2 Polyclonal Antibody | anti-PKAR2 antibody

Phospho-PKA R2 (Ser99) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329291	**Rabbit**	**Human, Mouse, Rat**	**ELISA, Immunohistochemistry**

PRODUCT SYNONYMS

PKA R2; Polyclonal Antibody; Phospho-PKA R2 (Ser99) Antibody; 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; 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; anti-PKAR2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-PKA R2 (Ser99) Antibody detects endogenous levels of PKA R2 only when phosphorylated at Ser99. Tissue Specificity: Four types of regulatory chains are found: I-alpha, I-beta, II-alpha, and II-beta. Their expression varies among tissues and is in some cases constitutive and in others inducible.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-PKAR2 antibody	ELISA (Peptide ELISA), IHC (Immunohistochemistry)
Immunogen	A synthesized peptide derived from human PKA R2 around the phosphorylation site of Ser99.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Phosphorylated by the activated catalytic chain.
Subunit Structure	The inactive form of the enzyme is composed of two regulatory chains and two catalytic chains. Activation by cAMP produces two active catalytic monomers and a regulatory dimer that binds four cAMP molecules. Interacts with AKAP4 and CBFA2T3. Interacts with the phosphorylated form of PJA2. Interacts with MYRIP. This interaction may link PKA to components of the exocytosis machinery, thus facilitating exocytosis, including insulin release (By similarity). Forms a complex composed of PRKAR2A, GSK3B and GSKIP through GSKIP interaction; facilitates PKA-induced phosphorylation and regulates GSK3B activity. Interacts with ADCY8; inhibits adenylate cyclase activity through PKA phosphorylation.
Similarity	Belongs to the cAMP-dependent kinase regulatory chain family.
Subcellular Location	Cytoplasm. Cell membrane. Note: Colocalizes with PJA2 in the cytoplasm and the cell membrane.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES

IHC (Immunohistochemisry)
At 1/100 staining Human colorectal cancer by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

IHC (Immunohiostchemistry)
Staining Human pancreatic cancer and adjacent nomal tissues by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

IHC (Immunohistochemistry)
At 1/100 staining Human kidney cancer by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-PKAR2 antibody	Regulatory subunit of the cAMP-dependent protein kinases involved in cAMP signaling in cells. Type II regulatory chains mediate membrane association by binding to anchoring proteins, including the MAP2 kinase.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4758958
NCBI GeneID	5576
NCBI Accession #	NP_004148.1
NCBI GenBank Nucleotide #	NM_004157.2
UniProt Accession #	P13861; Q16823
Molecular Weight	45,518 Da
NCBI Official Full Name	cAMP-dependent protein kinase type II-alpha regulatory subunit
NCBI Official Synonym Full Names	protein kinase, cAMP-dependent, regulatory, type II, alpha
NCBI Official Symbol	PRKAR2A
NCBI Official Synonym Symbols	PKR2; PRKAR2
NCBI Protein Information	cAMP-dependent protein kinase type II-alpha regulatory subunit; protein kinase A, RII-alpha subunit; cAMP-dependent protein kinase regulatory subunit RII alpha
UniProt Protein Name	cAMP-dependent protein kinase type II-alpha regulatory subunit
UniProt Gene Name	**PRKAR2A**
UniProt Synonym Gene Names	PKR2; PRKAR2
UniProt Entry Name	KAP2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: https://stage.aaabiotech.com/polyclonal/pka-r2-antibody-peptide-elisa-immunohistochemistry-elisa/329291