Rabbit PRKAR2B Polyclonal Antibody | anti-PRKAR2B antibody

PRKAR2B Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA327335	**Rabbit**	**Human, Mouse, Rat**	**ELISA, Immunocytochemistry, Immunofluorescence, Western Blot**

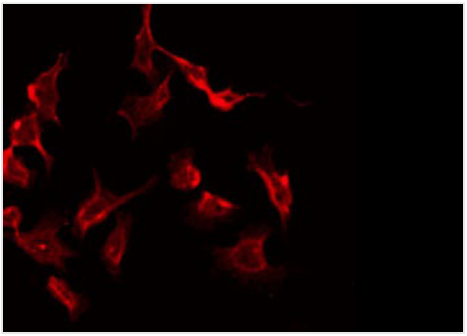
PRODUCT SYNONYMS

PRKAR2B; Polyclonal Antibody; PRKAR2B Antibody; AI451071; AW061005; cAMP dependent protein kinase type II beta regulatory chain; cAMP dependent protein kinase type II beta regulatory subunit; cAMP-dependent protein kinase type II-beta regulatory subunit; H RG363E19.2; KAP3_HUMAN; MGC116401; Pkarb2; PRKAR 2; PRKAR2; Protein kinase cAMP dependent regulatory type II beta; RATDNA; RII beta; RII(beta); RIIbeta; WUGSC:H RG363E19.2; anti-PRKAR2B antibody

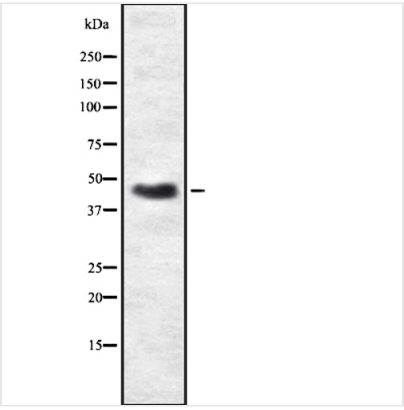
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	PRKAR2B antibody detects endogenous levels of total PRKAR2B
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	418
Applicable Applications for anti-PRKAR2B antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human PRKAR2B
Subcellular Location	Cytoplasm. Cell Membrane. Co-localizes with PJA2 in the cytoplasm and at the cell membrane.
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.
Predicted Cross Reactivity	**Pig, Bovine, Sheep, Rabbit, Dog, Chicken, Xenopus**
Similarity	Pig (100%), Bovine (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)
AAA327335 staining Hela by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



WB (Western Blot)
Western blot analysis of PRKAR2B using A549 whole lysates.

ADDITIONAL INFORMATION

Related Product Information for anti-PRKAR2B antibody	Function: 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. 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 the phosphorylated form of PJA2. Forms a complex composed of PRKAR2B, GSK3B and GSKIP through GSKIP interaction; facilitates PKA-induced phosphorylation and regulates GSK3B activity (PubMed:25920809). Post-translational Modifications: Phosphorylated by the activated catalytic chain. Similarity: Belongs to the cAMP-dependent kinase regulatory chain family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	47132585
NCBI GeneID	5577
NCBI Accession #	NP_002727.2
NCBI GenBank Nucleotide #	NM_002736.2
UniProt Accession #	P31323; A4D0R9
Molecular Weight	Observed: 46 kDa Predicted: 47 kDa
NCBI Official Full Name	cAMP-dependent protein kinase type II-beta regulatory subunit
NCBI Official Synonym Full Names	protein kinase cAMP-dependent type II regulatory subunit beta
NCBI Official Symbol	PRKAR2B
NCBI Official Synonym Symbols	PRKAR2; RII-BETA
NCBI Protein Information	cAMP-dependent protein kinase type II-beta regulatory subunit
UniProt Protein Name	cAMP-dependent protein kinase type II-beta regulatory subunit
UniProt Gene Name	**PRKAR2B**

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.

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