

Rabbit PRKAR2B Polyclonal Antibody | anti-PRKAR2B antibody

PRKAR2B Antibody

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

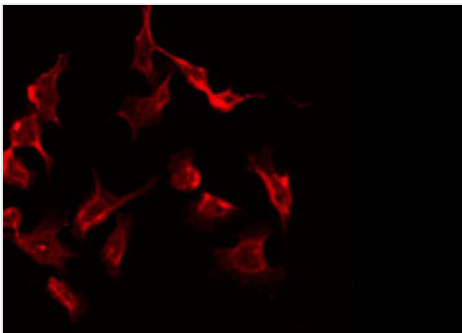
PRODUCT SYNONYMS

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

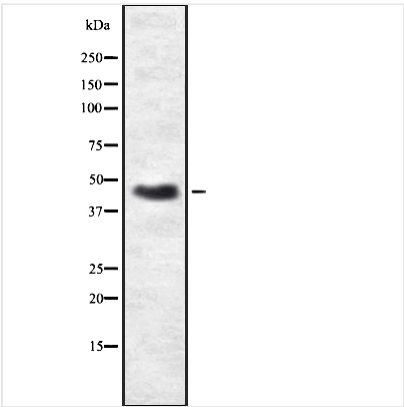
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	PRKAR2B antibody detects endogenous levels of total PRKAR2B
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, 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.