

Rabbit anti-Human, mouse PKA 2 beta (PRKAR2B) Polyclonal Antibody | anti-PRKAR2B antibody

PKA 2 beta (PRKAR2B) Antibody (N-term)

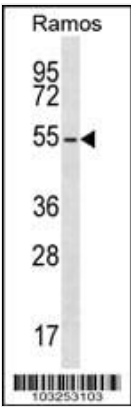
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA288582	Rabbit	Human, mouse	ELISA, Western Blot

PRODUCT SYNONYMS

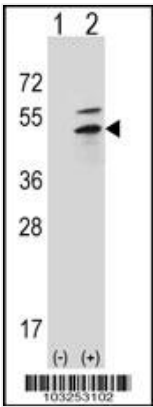
PKA 2 beta (PRKAR2B); Polyclonal Antibody; PKA 2 beta (PRKAR2B) Antibody (N-term); cAMP-dependent protein kinase type II-beta regulatory subunit; PRKAR2B; anti-PRKAR2B antibody

PRODUCT SPECIFICATIONS

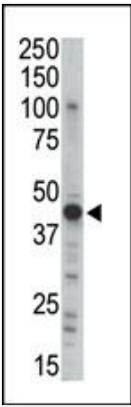
Host	Rabbit
Reactivity	Human, mouse
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This PKA 2 beta (PRKAR2B) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 32-62 amino acids from the N-terminal region of human PKA 2 beta (PRKAR2B).
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Concentration	Vial Concentration: 0.5 (varies by lot)
Sequence Positions	32-62
Sequence Length	418
Applicable Applications for anti-PRKAR2B antibody	ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



WB (Western Blot)
PRKAR2B Antibody (G46) western blot analysis in Ramos cell line lysates (35ug/lane). This demonstrates the PRKAR2B antibody detected the PRKAR2B protein (arrow).



WB (Western Blot)
Western blot analysis of PRKAR2B (arrow) using rabbit polyclonal PRKAR2B Antibody (G46). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the PRKAR2B gene.



WB (Western Blot)
Western blot analysis of anti-PRKAR2B Pab in mouse brain tissue lysate. PRKAR2B (arrow) was detected using purified Pab. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.

ADDITIONAL INFORMATION

Related Product Information for anti-PRKAR2B antibody	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. This subunit has been shown to interact with and suppress the transcriptional activity of the cAMP responsive element binding protein 1 (CREB1) in activated T cells. Knockout studies in mice suggest that this subunit may play an important role in regulating energy balance and adiposity. The studies also suggest that this subunit may mediate the gene induction and cataleptic behavior induced by haloperidol.
Product Categories/Family for anti-PRKAR2B antibody	Signal Transduction
References	Levy, F.O., et al., Mol. Endocrinol. 2(12):1364-1373 (1988).

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	46302
NCBI Official Full Name	cAMP-dependent protein kinase type II-beta regulatory subunit
NCBI Official Synonym Full Names	protein kinase, cAMP-dependent, regulatory, type II, 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
UniProt Entry Name	KAP3_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.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/pka-2-beta-prkar2b-antibody-western-blot-elisa/288582>