

Rabbit anti-Human PRKAR2B Monoclonal Antibody | anti-PRKAR2B antibody

PRKAR2B Rabbit mAb

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA282809	Rabbit	Human	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

PRKAR2B; Monoclonal Antibody; PRKAR2B Rabbit mAb; PRKAR2; RII-BETA; anti-PRKAR2B antibody

PRODUCT SPECIFICATIONS

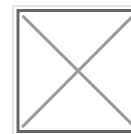
Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG
Purity/Purification	Affinity purification
Form/Format	PBS with 0.02% sodium azide, 0.05% BSA, 50% glycerol, pH7.3.
Sequence	GEVKITMKRK GKSEVEENGA VEIARCSRQ YFGELALVTN KPRAASAHAI GTVKCLAMDV QAFERLLGPC MEIMKRNIAT YEEQLVALFG TNMDIVEPTA
Applicable Applications for anti-PRKAR2B antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Cross Reactivity	Mouse, Rat
Immunogen	A synthetic peptide corresponding to a sequence within amino acids 319-418 of human PRKAR2B (P31323).
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.

IMAGES



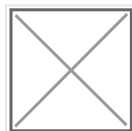
IHC (Immunohistochemistry)

Immunohistochemistry analysis of paraffin-embedded Rat ovary using PRKAR2B Rabbit mAb (AAA282809) at dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M Tris/EDTA Buffer (pH 9.0) prior to IHC staining.



IHC (Immunohistochemistry)

Immunohistochemistry analysis of paraffin-embedded Mouse brain using PRKAR2B Rabbit mAb (AAA282809) at dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M Tris/EDTA Buffer (pH 9.0) prior to IHC staining.



WB (Western Blot)

Western blot analysis of various lysates using PRKAR2B Rabbit mAb (AAA282809) at 1:1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 180s.

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; G protein signaling; G-Protein-Coupled Receptors Signaling to MAPK Erk; Kinase; MAPK-Erk Signaling Pathway; Cell Biology Developmental Biology; Apoptosis; Mitochondrial Control of Apoptosis; Inhibition of Apoptosis; Cytoskeleton; Acti

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	Calculated MW: 46kDa Observed MW: 46kDa
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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/monoclonal/prkar2b-antibody-immunohistochemistry-western-blot-elisa/282809>