

Datasheet for ABIN7269663  
**anti-PRKAR2B antibody**

3 Images



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## Overview

Quantity:	100 µL
Target:	PRKAR2B
Reactivity:	Human
Host:	Rabbit
Clonality:	Monoclonal
Conjugate:	This PRKAR2B antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

## Product Details

Purpose:	PRKAR2B Rabbit mAb
Immunogen:	A synthesized peptide derived from human PRKAR2B
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Monoclonal Antibodies
Purification:	Affinity purification

## Target Details

Target:	PRKAR2B
Alternative Name:	PRKAR2B ( <a href="#">PRKAR2B Products</a> )
Background:	cAMP is a signaling molecule important for a variety of cellular functions. cAMP exerts its

## Target Details

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. [provided by RefSeq, Jul 2008],PRKAR2, RII-BETA,Apoptosis,Apoptosis\_Inhibition of Apoptosis,Apoptosis\_Mitochondrial Control of Apoptosis,Cell Biology & Developmental Biology,Cytoskeleton,Cytoskeleton\_Actins,Endocrine & Metabolism,G protein signaling,G protein signaling\_G-Protein-Coupled Receptors Signaling to MAPK/Erk,Insulin Receptor Signaling Pathway,Kinase,Lipid Metabolism,MAPK-Erk Signaling Pathway,Neurodegenerative Diseases,Neurodegenerative Diseases\_Dopamine Signaling in Parkinsons Disease,Neuroscience,Signal Transduction,PRKAR2B

Molecular Weight:	46kDa
Gene ID:	5577
UniProt:	<a href="#">P31323</a>
Pathways:	<a href="#">Hedgehog Signaling</a> , <a href="#">EGFR Signaling Pathway</a> , <a href="#">Neurotrophin Signaling Pathway</a> , <a href="#">Myometrial Relaxation and Contraction</a> , <a href="#">M Phase</a> , <a href="#">G-protein mediated Events</a> , <a href="#">Interaction of EGFR with phospholipase C-gamma</a> , <a href="#">SARS-CoV-2 Protein Interactome</a> , <a href="#">The Global Phosphorylation Landscape of SARS-CoV-2 Infection</a>

## Application Details

Application Notes:	WB,1:500 - 1:2000,IHC,1:50 - 1:200
Restrictions:	For Research Use only

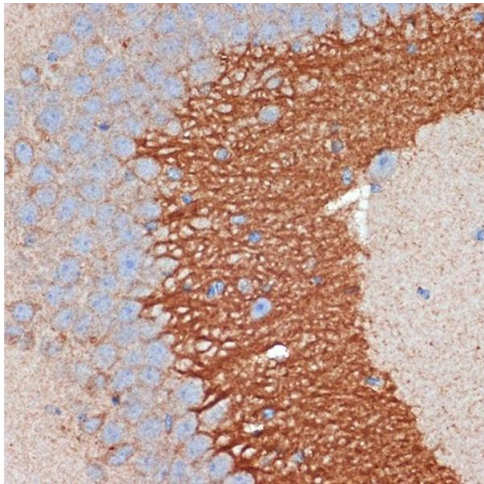
## Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,0.05 % BSA,50 % glycerol, pH 7.3.

## Handling

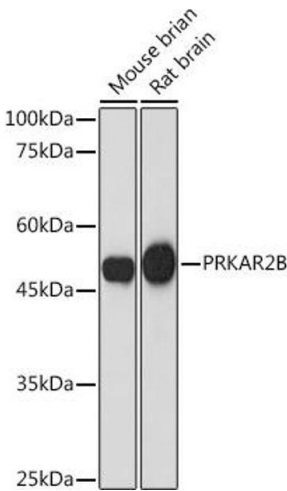
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

## Images



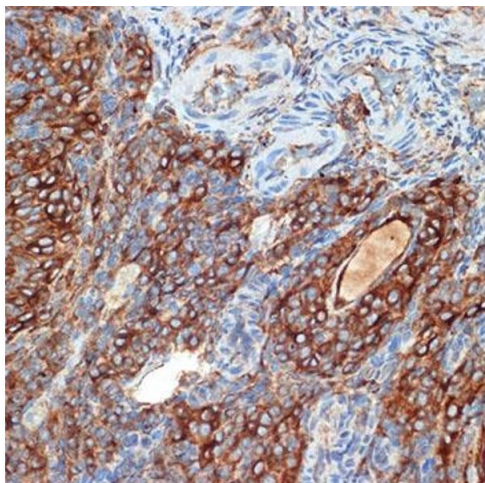
### Immunohistochemistry

**Image 1.** Immunohistochemistry of paraffin-embedded mouse brain using PRKB Rabbit mAb (ABIN7269663) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



### Western Blotting

**Image 2.** Western blot analysis of extracts of various cell lines, using PRKB Rabbit mAb (ABIN7269663) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 180s.



#### Immunohistochemistry

**Image 3.** Immunohistochemistry of paraffin-embedded rat ovary using PRKB Rabbit mAb (ABIN7269663) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.