

Datasheet for ABIN2786691
anti-PRKACB antibody (Middle Region)



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1 Image

Overview

Quantity:	100 µL
Target:	PRKACB
Binding Specificity:	Middle Region
Reactivity:	Human, Rat, Mouse, Cow, Guinea Pig, Horse, Rabbit, Dog, Sheep, Zebrafish (Danio rerio)
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PRKACB antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human PRKACB
Sequence:	NGVSDIKTHK WFATTDWIAI YQRKVEAPFI PKFRGSGDTS NFDDYEEEDI
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%, Sheep: 92%, Zebrafish: 93%
Characteristics:	This is a rabbit polyclonal antibody against PRKACB. It was validated on Western Blot.
Purification:	Affinity Purified

Target Details

Target:	PRKACB
Alternative Name:	PRKACB (PRKACB Products)

Target Details

Background: 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 a member of the Ser/Thr protein kinase family and is a catalytic subunit of cAMP-dependent protein kinase.

Alias Symbols: DKFZp781I2452, MGC41879, MGC9320, PKACB

Protein Interaction Partner: APPBP2, UBC, TP53RK, TPRKB, KIAA1279, ARPC2, ACTR2, ACTR3, ARPC1B, ARPC4, SUMO1, PFDN1, CDK5RAP2, MAPRE1, AKAP11, DCAF7, AKAP9, TRAP1, PDE4DIP, AKAP5, AKAP7, VAPA, VAPB, DYNLL1, AKAP1, RPS6, RPL27A, PRKAR2B, PRKAR2A, PRKAR1B, PRKAR1A, PRKACA, HSP90AB1, HS

Protein Size: 351

Molecular Weight: 40 kDa

Gene ID: 5567

NCBI Accession: [NM_002731](#), [NP_002722](#)

UniProt: [P22694](#)

Pathways: [AMPK Signaling](#), [Hedgehog Signaling](#), [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [Thyroid Hormone Synthesis](#), [Myometrial Relaxation and Contraction](#), [M Phase](#), [G-protein mediated Events](#), [Interaction of EGFR with phospholipase C-gamma](#), [Lipid Metabolism](#)

Application Details

Application Notes: Optimal working dilutions should be determined experimentally by the investigator.

Comment: Antigen size: 351 AA

Restrictions: For Research Use only

Handling

Format: Liquid

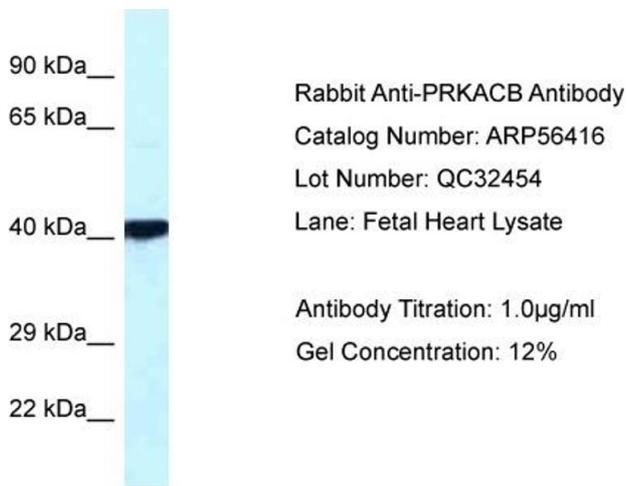
Concentration: Lot specific

Buffer: Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.

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.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Images



Western Blotting

Image 1. WB Suggested Anti-PRKACB Antibody Titration:

0.2-1 ug/ml

ELISA Titer: 1:62500

Positive Control: Human Lung