Datasheet for ABIN931105

anti-PRKAR1A antibody

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Overview

Quantity:	100 µg
Target:	PRKAR1A
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This PRKAR1A antibody is un-conjugated
Application:	Western Blotting (WB), Dot Blot (DB)

Product Details

Immunogen:	PRKAR1 A antibody was raised in mouse using recombinant Human Protein Kinase, Camp-Dependent, Regulatory, Type I, Alpha (Tissue Specific Extinguisher 1) (Prkar1)
Clone:	3546C2a
Isotype:	IgG1
Cross-Reactivity:	Human
Cross-Reactivity (Details):	Other species not studied.
Purification:	Protein G affinity chromatography

Target Details

Target:	PRKAR1A
Alternative Name:	PRKAR1A (PRKAR1A Products)

Target Details

Background:	CAMP is a signaling molecule important for a variety of cellular functions. cAMP exerts its effects by activating the cAMPdependent protein kinase (AMPK), which transduces the signal through phosphorylation of different target proteins. The inactive holoenzyme of AMPK 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 of AMPK have been identified in humans. The protein encoded by this gene is one of the regulatory subunits. This protein was found to be a tissue-specific extinguisher that down-regulates the expression of seven liver genes in hepatoma x fibroblast hybrids. Synonyms: Monoclonal PRKAR1A antibody, Anti-PRKAR1A antibody, Protein kinase cAMP dependent regulatory type I alpha antibody, CAR antibody, CNC antibody, CNC1 antibody, PKR1 antibody, TSE1 antibody, PPNAD1 antibody, PRKAR1 antibody, MGC17251 antibody, DKFZp779L0468 antibody.
Pathways:	Hedgehog Signaling, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Myometrial Relaxation and Contraction, G-protein mediated Events, Interaction of EGFR with phospholipase C-gamma

Application Details

Application Notes:	WB: 0.2-2 µg/mL Optimal conditions should be determined by the investigator.
Restrictions:	For Research Use only

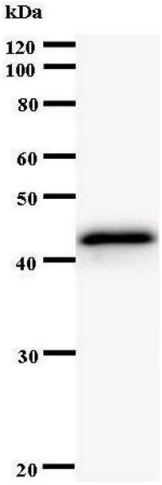
Handling

Concentration:	Lot specific
Buffer:	PRKAR1 A antibody in PBS (3.0 mM KCl, 1.5 mM KH2 PO4 , 140 mM NaCl, 8.0 mM Na2 HPO4 (pH 7.4)) containing 1 % bovine serum albumin (BSA) and 0.05 % sodium azide (NaN3).
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. Dilute only prior to immediate use.
Storage:	4 °C/-20 °C

Handling

Storage Comment:	Store at 2-8 °C for up to one year. We recommend long term storage at -20 °C.

Images



Western Blotting

Image 1.