Datasheet for ABIN2787418

anti-PRKAR1A antibody (C-Term)

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Overview

Quantity:	100 µL
Target:	PRKAR1A
Binding Specificity:	C-Term
Reactivity:	Human, Rat, Mouse, Cow, Guinea Pig, Sheep, Rabbit, Dog, Horse, Zebrafish (Danio rerio)
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PRKAR1A antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the C terminal region of human PRKAR1A
Sequence:	MNRPRAATVV ARGPLKCVKL DRPRFERVLG PCSDILKRNI QQYNSFVSLS
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%, Sheep: 100%, Zebrafish: 100%
Characteristics:	This is a rabbit polyclonal antibody against PRKAR1A. It was validated on Western Blot.
Purification:	Affinity Purified

Target Details

Target:	PRKAR1A

Target Details

Alternative Name:	PRKAR1A (PRKAR1A Products)
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. This gene encodes 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. Mutations in this gene cause Carney complex (CNC). This gene can fuse to the RET protooncogene by gene rearrangement and form the thyroid tumor-specific chimeric oncogene known as PTC2. A nonconventional nuclear localization sequence (NLS) has been found for this protein which suggests a role in DNA replication via the protein serving as a nuclear transport protein for the second subunit of the Replication Factor C (RFC40). Three alternatively spliced transcript variants encoding the same protein have been observed. Alias Symbols: CAR, CNC, CNC1, DKFZp779L0468, MGC17251, PKR1, PPNAD1, PRKAR1, TSE1, ADOHR Protein Interaction Partner: UBC, RAF1, MAPT, CEP250, GSK3B, AGO3, AGO2, ARPC3, PFDN5, DYRK1B, SET, DYRK1A, PLEKHF2, AKAP10, SOX2, PRKACB, PRKACA, NPM1, CAPN11, RFC2, PPP1CA, SMAD2, HIVEP1, SETD7, PRPF40A, CDK2, CCNE1, SMURF1, Akap7, MEN1, HSP90AA4P, SLC38A5, PRPF31, SAFB, UBD, PATZ1 Protein Size: 381
Molecular Weight:	43 kDa
Gene ID:	5573
NCBI Accession:	NM_212471, NP_997636
UniProt:	P10644
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:	Optimal working dilutions should be determined experimentally by the investigator.

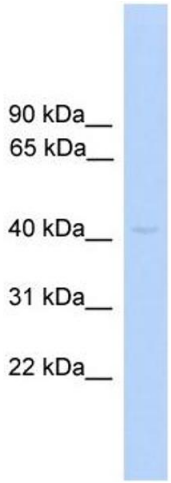
Application Details

Comment:	Antigen size: 381 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.
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-PRKAR1A Antibody

Titration: 0.2-1 ug/ml

ELISA Titer: 1:62500

Positive Control: Human Liver