

Datasheet for ABIN2788839
anti-PRKAR2A antibody (Middle Region)



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1 Image

Overview

Quantity:	100 µL
Target:	PRKAR2A
Binding Specificity:	Middle Region
Reactivity:	Human, Rat, Mouse, Pig, Dog, Cow, Horse, Rabbit, Guinea Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PRKAR2A antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Sequence:	DILVTKDNQT RSVGQYDNRG SFGELALMYN TPRAATIVAT SEGSLWGLDR
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 93%, Horse: 100%, Human: 100%, Mouse: 100%, Pig: 100%, Rabbit: 93%, Rat: 100%
Characteristics:	This is a rabbit polyclonal antibody against PRKAR2A. It was validated on Western Blot.
Purification:	Affinity Purified

Target Details

Target:	PRKAR2A
Alternative Name:	PRKAR2A (PRKAR2A Products)
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. It may interact with various A-kinase anchoring proteins and determine the subcellular localization of cAMP-dependent protein kinase. This subunit has been shown to regulate protein transport from endosomes to the Golgi apparatus and further to the endoplasmic reticulum (ER).

Alias Symbols: MGC3606, PKR2, PRKAR2

Protein Interaction Partner: UBC, SUZ12, IMPDH2, GPS1, CSRP1, KPNA6, PRKACB, PRKACA, GCH1, WASF1, VCP, CIRBP, ELAVL1, PJA2, DynII1, AKAP7, PPP1CB, MYCBPAP, ARFGEF2, AKAP2, RAB32, NBEA, AKAP12, AKAP11, AKAP10, AKAP8, AKAP6, AKAP3, AKAP5, AKAP13, AKAP9, CBFA2T3, SMAD3, AKAP1, CFTR, SMA

Protein Size: 404

Molecular Weight:	44 kDa
Gene ID:	5576
NCBI Accession:	NM_004157 , NP_004148
UniProt:	P13861
Pathways:	Hedgehog Signaling , EGFR Signaling Pathway , Neurotrophin Signaling Pathway , Myometrial Relaxation and Contraction , G-protein mediated Events , Interaction of EGFR with phospholipase C-gamma , SARS-CoV-2 Protein Interactome , The Global Phosphorylation Landscape of SARS-CoV-2 Infection

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 404 AA
Restrictions:	For Research Use only

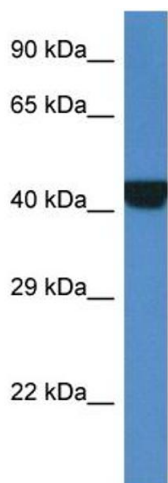
Handling

Format:	Liquid
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Handling

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



Rabbit Anti-PRKAR2A Antibody
Catalog Number: ARP61563
Lot Number: QC32219
Lane: Fetal Kidney Lysate

Antibody Titration: 1.0µg/ml
Gel Concentration: 12%

Western Blotting

Image 1.