Datasheet for ABIN3021148

anti-PRKAR1A antibody (AA 1-250)

5 Images

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Overview

Quantity:	100 µL
Target:	PRKAR1A
Binding Specificity:	AA 1-250
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PRKAR1A antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-250 of human PRKAR1A (NP_002725.1).
Sequence:	MESGSTAASE EARSLRECEL YVQKHNIQAL LKDSIVQLCT ARPERPMAFL REYFERLEKE EAKQIQNLQK AGTRTDSRED EISPPPPNPV VKGRRRRGAI SAEVYTEEDA ASYVRKVIPK DYKTMAALAK AIEKNVLFSH LDDNERSDIF DAMFSVSFIA GETVIQQGDE GDNFYVIDQG ETDVYVNNEW ATSVGEGGSF GELALIYGTP RAATVKAKTN VKLWGIDRDS YRRILMGSTL RKRKMYEEFL
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Characteristics:	Polyclonal Antibodies

Target Details

Target:	PRKAR1A
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). Several alternatively spliced transcript variants encoding two different isoforms have been observed.,PRKAR1A,ACRDYS1,ADOHR,CAR,CNC,CNC1,PKR1,PPNAD1,PRKAR1,TSE1,Cancer,Signal Transduction,G protein signaling,G2/M DNA Damage Checkpoint,Kinase,Serine/threonine kinases,MAPK-Erk Signaling Pathway,Cell Biology & Developmental Biology,Apoptosis,Mitochondrial Control of Apoptosis,Inhibition of Apoptosis,Cytoskeleton,Microtubules,Actins,Hedgehog Signaling Pathway,Endocrine & Metabolism,AMPK Signaling Pathway,Insulin Receptor Signaling Pathway,Immunology & Inflammation,Neuroscience,Neurodegenerative Diseases,Dopamine Signaling in Parkinson's Disease,PRKAR1A
Molecular Weight:	38 kDa/42 kDa
Gene ID:	5573
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:	WB,1:500 - 1:2000,IF,1:50 - 1:200

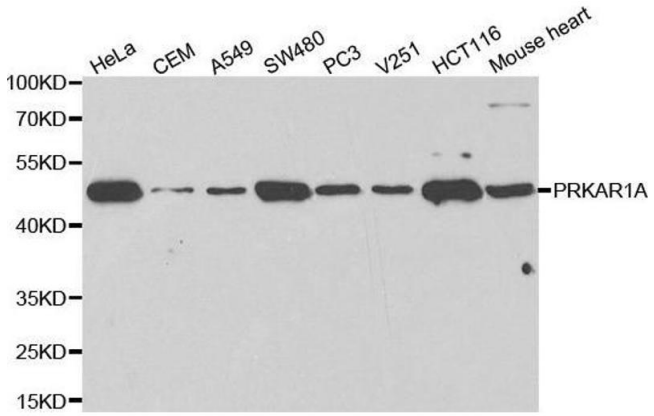
Application Details

Restrictions:	For Research Use only

Handling

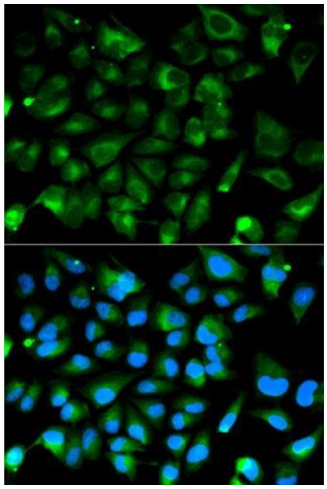
Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid freeze / thaw cycles
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Images



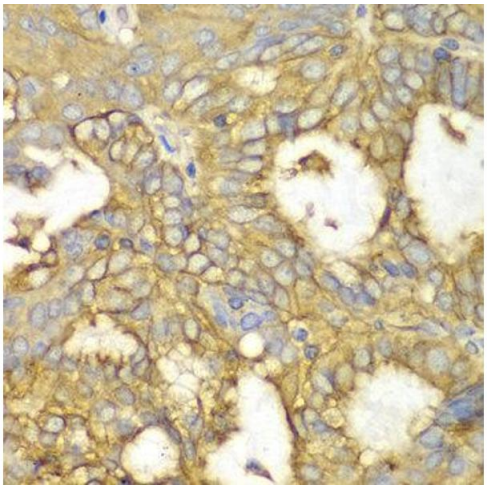
Western Blotting

Image 1. Western blot analysis of extracts of various cell lines using PRKAR1A antibody.



Immunofluorescence

Image 2. Immunofluorescence analysis of HeLa cell using PRKAR1A antibody. Blue: DAPI for nuclear staining.



Immunohistochemistry

Image 3.

Please check the product details page for more images. Overall 5 images are available for ABIN3021148.