Datasheet for ABIN969364

anti-PRKAA1 antibody

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Overview

Quantity:	100 µL
Target:	PRKAA1
Reactivity:	Human, Mouse, Rat, Monkey
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This PRKAA1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Flow Cytometry (FACS), Immunocytochemistry (ICC)

Product Details

Immunogen:	Purified recombinant fragment of human PRKAA1 expressed in E. coli.
Clone:	2B7
Isotype:	IgG1
Purification:	purified

Target Details

Target:	PRKAA1
Alternative Name:	PRKAA1 (PRKAA1 Products)
Background:	Description: The protein belongs to the ser/thr protein kinase family. It is the catalytic subunit of the 5'-prime-AMP-activated protein kinase (AMPK). AMPK is a cellular energy sensor conserved in all eukaryotic cells. The kinase activity of AMPK is activated by the stimuli that increase the

Target Details

	cellular AMP/ATP ratio. AMPK regulates the activities of a number of key metabolic enzymes through phosphorylation. It protects cells from stresses that cause ATP depletion by switching off ATP-consuming biosynthetic pathways. Alternatively spliced transcript variants encoding distinct isoforms have been observed. Aliases: AMPK, AMPKa1, MGC33776, MGC57364, PRKAA1
Molecular Weight:	64 kDa
Gene ID:	5562
HGNC:	5562
Pathways:	AMPK Signaling, Carbohydrate Homeostasis, Regulation of Carbohydrate Metabolic Process, Warburg Effect

Application Details

Application Notes:	ELISA: 1:10000, WB: 1:500 - 1:2000, IHC: 1:200 - 1:1000, ICC: 1:200 - 1:1000, FCM: 1:200 - 1:400
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Ascitic fluid containing 0.03 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C/-20 °C
Storage Comment:	4°C, -20°C for long term storage

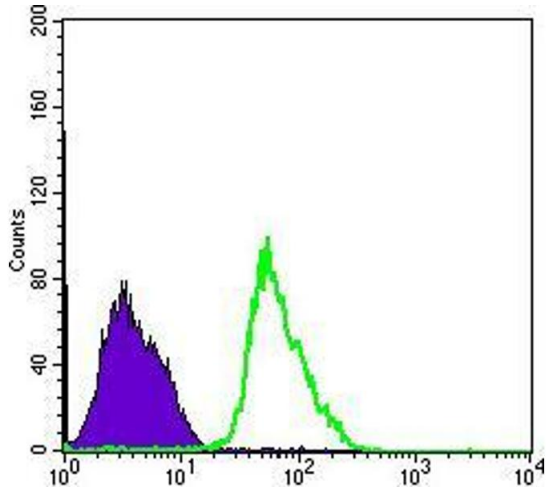
Publications

Product cited in:	Dupasquier, Abdel-Samad, Glazer, Bastide, Jay, Joubert, Cavaillès, Blache, Quittau-Prévostel: "A new mechanism of SOX9 action to regulate PKCalpha expression in the intestine epithelium." in: **Journal of cell science**, Vol. 122, Issue Pt 13, pp. 2191-6, (2009) (PubMed). Gordon, Tan, Benko, Fitzpatrick, Lyonnet, Farlie: "Long-range regulation at the SOX9 locus in development and disease." in: **Journal of medical genetics**, Vol. 46, Issue 10, pp. 649-56, (2009)

Publications

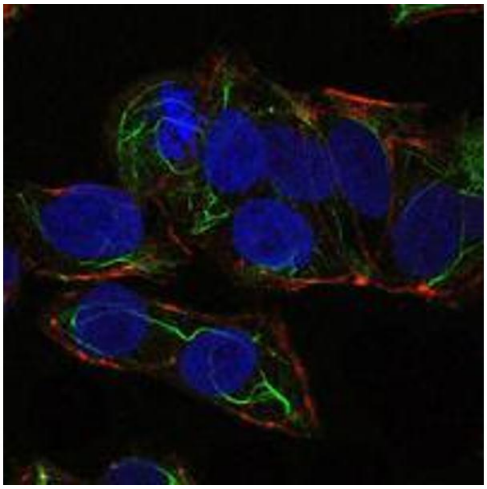
(PubMed).

Images



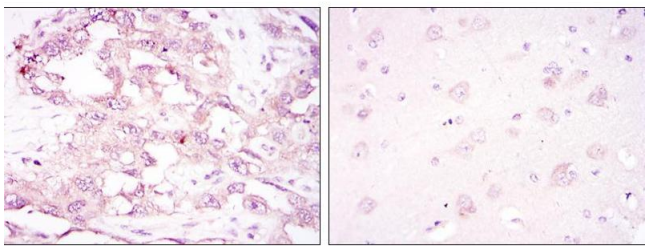
Flow Cytometry

Image 1. Flow cytometric analysis of PC-2 cells using PRKAA1 mouse mAb (green) and negative control (purple).



Immunofluorescence

Image 2. Immunofluorescence analysis of NTERA-2 cells using PRKAA1 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



Immunohistochemistry

Image 3. Immunohistochemical analysis of paraffin-embedded ovarian cancer (left) and brain tissues (right) using PRKAA1 mouse mAb with DAB staining.

Please check the product details page for more images. Overall 5 images are available for ABIN969364.