Datasheet for ABIN1302261

anti-PRKAR2A antibody

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Overview

Quantity:	0.1 mg
Target:	PRKAR2A
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This PRKAR2A antibody is un-conjugated
Application:	Western Blotting (WB), Immunocytochemistry (ICC)

Product Details

Immunogen:	Freshly ejaculated human sperms were washed in PBS and extracted in 3% acetic acid, 10% glycerol, 30 mM benzaminidine. The acid extract was dialyzed against 0.2% acetic acid and subsequently used for immunization.
Clone:	Hs-36
Isotype:	IgM
Specificity:	The antibody Hs-36 reacts with PRKAR2A (protein kinase A regulatory type II alpha subunit), an intra-acrosomal protein.
Cross-Reactivity (Details):	Human
Purification:	Purified by sequential steps of physicochemical fractionation (differential precipitation and solid-phase chromatography methods).
Purity:	> 95 % (by SDS-PAGE)

Target Details

Target:	PRKAR2A
Alternative Name:	PRKAR2A (PRKAR2A Products)
Background:	Protein kinase cAMP-dependent type II regulatory s,PRKAR2A (proteinkinase A regulatory type II alpha subunit), also known as PKR2, or PRKAR2, is a component of cAMP-dependent protein kinase complex. 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 PRKAR2A subunit has been shown to regulate protein transport from endosomes to the Golgi apparatus and further to the endoplasmic reticulum (ER). In sperm, this antigen can be used as an intra-acrosomal marker for evaluation of the physiological state of sperm cells as well as for selection of a suitable method of fertilization in the laboratories of assisted reproduction.,PKAR2A, PKR2, PKAR2, proteinkinase A regulatory 2
Gene ID:	5576
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:	Immunocytochemistry: Recommended dilution: 10 µg/mL, membrane permeabilization (acetone) is essential.
Restrictions:	For Research Use only

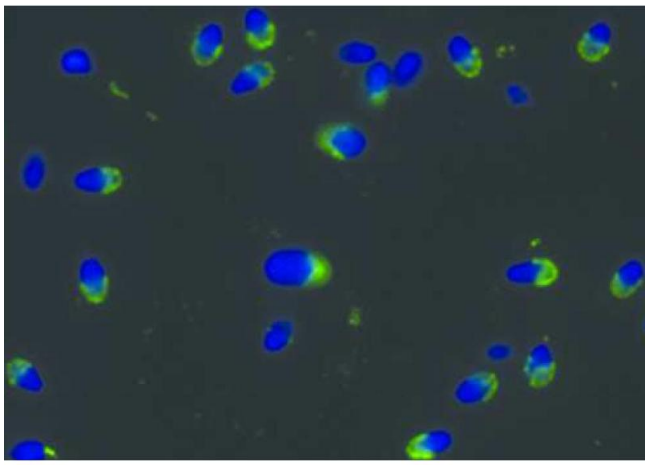
Handling

Concentration:	1 mg/mL
Buffer:	Tris buffered saline (TBS), pH 8.0, 15 mM 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.

Handling

Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

Images



Immunocytochemistry

Image 1. Immunocytochemistry staining of normal human sperma with anti-PRKAR2A antibody (intracellular signal in acrosomes, green), DNA visualized by DAPI (blue).