

Anti-PRKAR2A Purified Monoclonal Antibody

Catalog Number: M03911

About PRKAR2A

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.

Overview

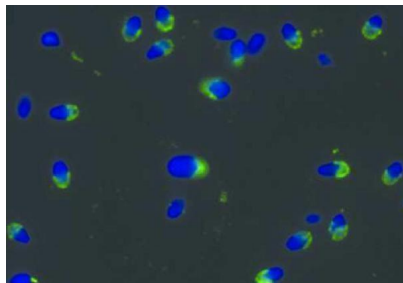
Product Name	Anti-PRKAR2A Purified Monoclonal Antibody
Reactive Species	Human
Description	Boster Bio Anti-PRKAR2A Purified Monoclonal Antibody (Catalog# M03911). Tested in ICC, WB application(s). This antibody reacts with Human.
Application	ICC, WB
Clonality	Monoclonal Hs-36
Formulation	Tris buffered saline (TBS), pH 8.0, 15 mM sodium azide
Storage Instructions	Store at 2-8°C. Do not freeze.
Host	Mouse
Uniprot ID	P13861

Technical 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. The antibody Hs-36 reacts with PRKAR2A (protein kinase A regulatory type II alpha subunit), an intra-acrosomal protein.
Predicted Reactive Species	Primate
Cross Reactivity	This antibody does not cross-react with Thy-1.1 alloantigen.
Isotype	Mouse IgM
Form	Liquid

Concentration	1 mg/ml
Purification	Purified by sequential steps of physicochemical fractionation (differential precipitation and solid-phase chromatography methods).
Suggested Dilutions	Immunocytochemistry: 10 ug/ml; membrane permeabilization (acetone) is essential.

Anti-PRKAR2A Purified Monoclonal Antibody (M03911) Images



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

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