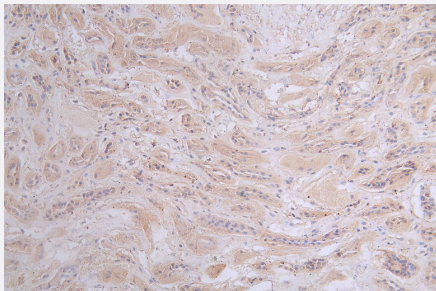


RecomAb™

PRKAR2A recombinant monoclonal antibody, clone 15G8

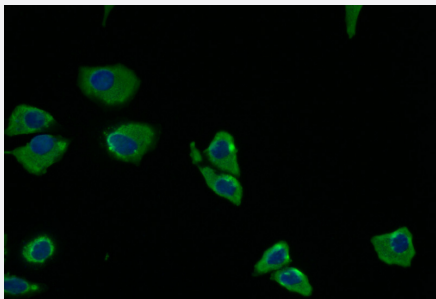
Catalog # RAB07738 Size 100 uL

Applications



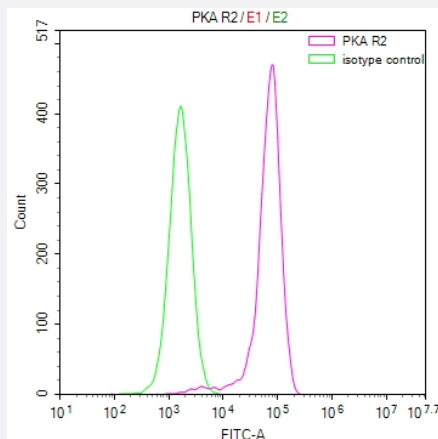
Immunohistochemistry

Immunohistochemistry image of PRKAR2A recombinant monoclonal antibody, clone 15G8 diluted at 1:50 and staining in paraffin-embedded human kidney tissue performed on a Leica Bond™ system.



Immunofluorescence

Immunofluorescence staining of HeLa Cells with PRKAR2A recombinant monoclonal antibody, clone 15G8 at 1:5, counter-stained with DAPI.



Flow Cytometry

Overlay Peak curve showing MCF-7 cells stained with PRKAR2A recombinant monoclonal antibody, clone 15G8 (red line) at 1:50.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human PRKAR2A.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide corresponding to human PRKAR2A.
Reactivity	Human
Form	Liquid
Purification	Affinity chromatography purification
Isotype	IgG
Recommend Usage	ELISA Flow Cytometry(1:50-1:200) Immunohistochemistry(1:50-1:200) Immunofluorescence(1:20-1:200) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH7.4 (150 mM NaCl, 0.02% sodium azide and 50% glycerol)
Storage Instruction	Store at -20°C or -80°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Immunohistochemistry

Immunohistochemistry image of PRKAR2A recombinant monoclonal antibody, clone 15G8 diluted at 1:50 and staining in paraffin-embedded human kidney tissue performed on a Leica Bond™ system.

- Immunofluorescence

Immunofluorescence staining of Hela Cells with PRKAR2A recombinant monoclonal antibody, clone 15G8 at 1:5, counter-stained with DAPI.

- Enzyme-linked Immunoabsorbent Assay

- Flow Cytometry

Overlay Peak curve showing MCF-7 cells stained with PRKAR2A recombinant monoclonal antibody, clone 15G8 (red line) at 1:50.

Gene Info — PRKAR2A

Entrez GeneID [5576](#)

Protein Accession# [P13861](#)

Gene Name PRKAR2A

Gene Alias MGC3606, PKR2, PRKAR2

Gene Description protein kinase, cAMP-dependent, regulatory, type II, alpha

Omim ID [176910](#)

Gene Ontology [Hyperlink](#)

Gene Summary

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. 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). [provided by RefSeq]

Other Designations

cAMP-dependent protein kinase regulatory subunit RII alpha|cAMP-dependent protein kinase, regulatory subunit alpha 2|protein kinase A, RII-alpha subunit

Pathway

- [Apoptosis](#)
- [Insulin signaling pathway](#)

Disease

- [Genetic Predisposition to Disease](#)
- [Schizophrenia](#)