Mouse PRKAR2A Monoclonal Antibody | anti-PRKAR2A antibody

PRKAR2A antibody

CATALOG #	HOST	APPLICATIONS
AAA108141	**Mouse**	**Western Blot, Immunohistochemistry, Immunofluorescence, Flow Cytometry, Functional Assay**

PRODUCT SYNONYMS

PRKAR2A; Monoclonal Antibody; PRKAR2A antibody; Monoclonal PRKAR2A; Anti-PRKAR2A; Protein kinase cAMP-dependent regulatory type II alpha; PKR2; PRKAR2; MGC3606; cAMP-dependent protein kinase type II-alpha regulatory subunit; PRKA 2Ra; PRKA-2Ra; anti-PRKAR2A antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Number	1A7
Purity/Purification	PRKAR2A antibody was purified by affinity chromatography.
Form/Format	Supplied in PBS buffer, pH 7.3, containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration	500 ug-1 mg/ml (varies by lot)
Sequence Length	382
Applicable Applications for anti-PRKAR2A antibody	WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Biological Significance	cAMP is a signaling molecule important for a variety of cellular functions. cAMP exerts its effects by activating thecAMP-dependent protein kinase, which transduces the signal through phosphorylation of different target proteins. The in active kinase holoenzyme is a tetramer composed of two regulatory and two catalytic subunits. cAMP causes the dissociation of the in active 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 subcellularlocalization of cAMP-dependent protein kinase.
Cross-Reactivity	Human
Immunogen	PRKAR2A antibody was raised in mouse using a full length recombinant protein of human PRKAR2A (NP_004148) produced in HEK293T cells, as the immunogen.
Preparation and Storage	Store at 4 degree C for short term storage. Aliquot and store at -20 degree C for long term storage. Avoid repeated freeze/thaw cycles.

IMAGES

IHC (Immunohistochemisry)
Immunohistochemical analysis of PRKAR2A protein in paraffin embedded Human kidney tissue using PRKAR2A antibody

WB (Western Blot)
Western Blot analysis of HEK293T cell lysates (5 ug) transfected with either recombinant PRKAR2A protein (Right) or empty vector (Left) detected with PRKAR2A antibody

IF (Immunofluorescence)
Immunofluorescent staining of COS7 cells transiently transfected with recombinant PRKAR2A protein using PRKAR2A antibody

ADDITIONAL INFORMATION

Related Product Information for anti-PRKAR2A antibody	Mouse monoclonal PRKAR2A antibody
Product Categories/Family for anti-PRKAR2A antibody	Proteases; Inhibitors; & Enzymes

NCBI AND UNIPROT INFORMATION

NCBI GI #	12803843
NCBI GeneID	5576
Molecular Weight	43,067 Da
NCBI Official Full Name	PRKAR2A protein
NCBI Official Synonym Full Names	protein kinase, cAMP-dependent, regulatory, type II, alpha
NCBI Official Symbol	PRKAR2A
NCBI Official Synonym Symbols	PKR2; PRKAR2
NCBI Protein Information	cAMP-dependent protein kinase type II-alpha regulatory subunit
UniProt Protein Name	cAMP-dependent protein kinase type II-alpha regulatory subunit
UniProt Gene Name	**PRKAR2A**
UniProt Synonym Gene Names	PKR2; PRKAR2
UniProt Entry Name	KAP2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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