PRKAR2A Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PRKAR2A, Polyclonal Antibody
Full Product Name	PRKAR2A Antibody, Biotin conjugated
Product Gene Name	anti-PRKAR2A antibody
Product Synonym Names	cAMP-dependent protein kinase type II-alpha regulatory subunit; PRKAR2A; PKR2; PRKAR2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95%, Protein G purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: PRKAR2A (MBS7052305) Biotin Conjugated Antibody: PRKAR2A (MBS7052308)
Molecular Weight	43,067 Da
OMIM	X14968 mRNA
3D Structure	ModBase 3D Structure for P13861
Immunogen	Recombinant Human cAMP-dependent protein kinase type II-alpha regulatory subunit protein (43-205AA)
Conjugation	Biotin
Preservative	0.03% Proclin 300
Constituents	50% Glycerol, 0.01M PBS, pH 7.4
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-PRKAR2A antibody	ELISA (EIA)
Related Product Information for anti-PRKAR2A antibody	Regulatory subunit of the cAMP-dependent protein kinases involved in cAMP signaling in cells. Type II regulatory chains mediate membrane association by binding to anchoring proteins, including the MAP2 kinase.
Other Notes	Small volumes of anti-PRKAR2A antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PRKAR2A purchase	MBS7052308 is an antibody targeting PRKAR2A. Also known as PRKAR2A Antibody, Biotin conjugated. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PRKAR2A. It may not necessarily be applicable to this product.

NCBI GI #	1013404558

NCBI GeneID	5576
NCBI Accession #	NP_001308911.1
UniProt Primary Accession #	P13861
UniProt Secondary Accession #	Q16823; Q9BUB1
UniProt Related Accession #	P13861
GenBank Nucleotide #	NM_001321982.1
NCBI Official Full Name	cAMP-dependent protein kinase type II-alpha regulatory subunit isoform a
NCBI Official Synonym Full Names	protein kinase cAMP-dependent type II regulatory subunit alpha
NCBI Official Symbol	PRKAR2A
NCBI Official Synonym Symbols	PKR2; PRKAR2
UniProt Protein Name	cAMP-dependent protein kinase type II-alpha regulatory subunit
Protein Family	cAMP-dependent protein kinase
UniProt Gene Name	PRKAR2A
UniProt Synonym Gene Names	PKR2; PRKAR2
NCBI Protein Information	cAMP-dependent protein kinase type II-alpha regulatory subunit
NCBI Summary for PRKAR2A	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, Jul 2008]
UniProt Comments for PRKAR2A	PKAR2A: a regulatory subunit of cAMP-regulated protein kinase. The inactive form of the enzyme is composed of two regulatory chains and two catalytic chains. Activation by cAMP produces two active catalytic monomers and a regulatory dimer that binds four cAMP molecules. Four types of regulatory chains are found: I-alpha, I-beta, II-alpha, and II-beta. Their expression varies among tissues and is in some cases constitutive and in others inducible. Protein type: Protein kinase, regulatory subunit Chromosomal Location of Human Ortholog: 3p21.31 Cellular Component: AMP-activated protein kinase complex; centrosome; cytoplasm; cytosol; focal adhesion; membrane; plasma membrane Molecular Function: cAMP-dependent protein kinase inhibitor activity; cAMP-dependent protein kinase regulator activity; protein binding; ubiquitin protein ligase binding Biological Process: activation of protein kinase A; blood coagulation; renal water homeostasis
Research Articles on PRKAR2A	**1.** High PK-R2 expression is associated with colorectal cancer.
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