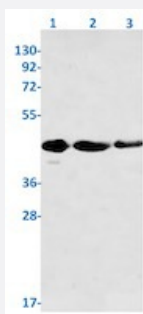


RecomAb™

PRKAR1A recombinant monoclonal antibody, clone R06-8A5

Catalog # RAB01979 Size 100 uL

Applications



Western Blot

Western blot analysis of Lane 1: C6, Lane 2: rat brain and Lane 3: Jurkat lysates with PRKAR1A recombinant monoclonal antibody, clone R06-8A5 (Cat # RAB01979).

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human PRKAR1A.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide corresponding to human PRKAR1A.
Theoretical MW (kDa)	Calculated MW: 43 kD
Reactivity	Human, Rat
Form	Liquid
Purification	Affinity purification
Isotype	IgG
Recommend Usage	Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 50 mM Tris-Glycine, pH 7.4 (0.15 M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA)

Storage Instruction

Store at -20 °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

- Western Blot

Western blot analysis of Lane 1: C6, Lane 2: rat brain and Lane 3: Jurkat lysates with PRKAR1A recombinant monoclonal antibody, clone R06-8A5 (Cat # RAB01979).

Gene Info — PRKAR1A

Entrez GeneID
[5573](#)
Protein Accession#
[P10644](#)
Gene Name

PRKAR1A

Gene Alias

CAR, CNC, CNC1, DKFZp779L0468, MGC17251, PKR1, PPNAD1, PRKAR1, TSE1

Gene Description

protein kinase, cAMP-dependent, regulatory, type I, alpha (tissue specific extinguisher 1)

Omim ID
[160980](#) [188550](#) [188830](#) [255960](#) [610489](#)
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. This gene encodes one of the regulatory subunits. This protein was found to be a tissue-specific extinguisher that down-regulates the expression of seven liver genes in hepatoma x fibroblast hybrids. Mutations in this gene cause Carney complex (CNC). This gene can fuse to the RET protooncogene by gene rearrangement and form the thyroid tumor-specific chimeric oncogene known as PTC2. A nonconventional nuclear localization sequence (NLS) has been found for this protein which suggests a role in DNA replication via the protein serving as a nuclear transport protein for the second subunit of the Replication Factor C (RFC40). Three alternatively spliced transcript variants encoding the same protein have been observed. [provided by RefSeq]

Other Designations

cAMP-dependent protein kinase regulatory subunit R1alpha|cAMP-dependent protein kinase type I-alpha regulatory chain|cAMP-dependent protein kinase, regulatory subunit alpha 1|protein kinase A type 1a regulatory subunit|tissue-specific extinguisher 1

Pathway

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

Disease

- [Adenoma](#)
- [Adrenal Cortex Diseases](#)
- [Adrenal Cortex Neoplasms](#)
- [Cushing Syndrome](#)
- [Genetic Predisposition to Disease](#)
- [Myxoma](#)
- [Thyroid Neoplasms](#)