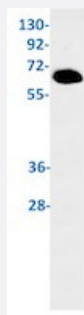


RecomAb™

PRKAA1 (phospho Ser496) recombinant monoclonal antibody, clone R01-3B7

Catalog # RAB01795 Size 100 uL

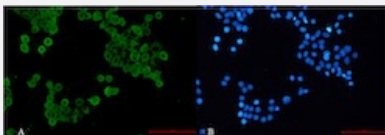
Applications



Western Blot

Western blot analysis of Ramos lysates with PRKAA1 (phospho Ser496) recombinant monoclonal antibody, clone R01-3B7 (Cat # RAB01795).

Immunocytochemistry



Immunocytochemical staining of HeLa with PRKAA1 (phospho Ser496) recombinant monoclonal antibody, clone R01-3B7 (Cat # RAB01795). (A) PRKAA1 (green) and (B) DAPI (blue).

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human PRKAA1.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic phosphopeptide corresponding to residues surrounding Ser496 of human PRKAA1.
Theoretical MW (kDa)	Calculated MW: 64 kD
Reactivity	Human

Form	Liquid
Purification	Affinity purification
Isotype	IgG
Recommend Usage	Immunocytochemistry Immunofluorescence (1:50-1:200) Immunoprecipitation (1:20) 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 Ramos lysates with PRKAA1 (phospho Ser496) recombinant monoclonal antibody, clone R01-3B7 (Cat # RAB01795).

- Immunocytochemistry

Immunocytochemical staining of HeLa with PRKAA1 (phospho Ser496) recombinant monoclonal antibody, clone R01-3B7 (Cat # RAB01795). (A) PRKAA1 (green) and (B) DAPI (blue).

- Immunofluorescence

- Immunoprecipitation

Gene Info — PRKAA1

Entrez GeneID	5562
Protein Accession#	Q13131
Gene Name	PRKAA1
Gene Alias	AMPK, AMPKa1, MGC33776, MGC57364

Gene Description	protein kinase, AMP-activated, alpha 1 catalytic subunit
Omim ID	602739
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene belongs to the ser/thr protein kinase family. It is the catalytic subunit of the 5'-prime-AMP-activated protein kinase (AMPK). AMPK is a cellular energy sensor conserved in all eukaryotic cells. The kinase activity of AMPK is activated by the stimuli that increase the cellular AMP/ATP ratio. AMPK regulates the activities of a number of key metabolic enzymes through phosphorylation. It protects cells from stresses that cause ATP depletion by switching off ATP-consuming biosynthetic pathways. Alternatively spliced transcript variants encoding distinct isoforms have been observed. [provided by RefSeq]
Other Designations	5'-AMP-activated protein kinase, catalytic alpha-1 chain AMP -activate kinase alpha 1 subunit AMP-activated protein kinase, catalytic, alpha-1 AMPK alpha 1

Pathway

- [Adipocytokine signaling pathway](#)
- [Hypertrophic cardiomyopathy \(HCM\)](#)
- [Insulin signaling pathway](#)
- [mTOR signaling pathway](#)
- [Regulation of autophagy](#)

Disease

- [Alzheimer disease](#)
- [Atherosclerosis](#)
- [Calcinosis](#)
- [Cardiovascular Diseases](#)
- [Colonic Neoplasms](#)
- [Coronary Artery Disease](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)

- [Drug Toxicity](#)
- [Edema](#)
- [Hypercholesterolemia](#)
- [Metabolic Syndrome X](#)
- [Neoplasms](#)
- [Osteoporosis](#)
- [Rectal Neoplasms](#)