PRKAA1 (Human) Cell-Based ELISA Kit

Catalog # KA2572 Size 1 Kit

Specification

Product Description	PRKAA1 (Human) Cell-Based ELISA Kit is an indirect enzyme-linked immunoassay for qualitative determination of PRKAA1 expression in cultured cells.
Suitable Sample	Attached Cell, Loosely Attached Cell, Suspension Cell
Label	HRP-conjugated
Detection Method	Colorimetric
Assay Type	Qualitative
Reactivity	Human, Mouse, Rat
Regulation Status	For research use only (RUO)
Storage Instruction	Store the kit at 4°C.

Applications

- Qualitative

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

Copyright © 2023 Abnova Corporation. All Rights Reserved.

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 sub unit of the 5'-prime-AMP-activated protein kinase (AMPK). AMPK is a cellular energy sensor con served 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 t hrough phosphorylation. It protects cells from stresses that cause ATP depletion by switching off A TP-consuming biosynthetic pathways. Alternatively spliced transcript variants encoding distinct is oforms have been observed. [provided by RefSeq
Other Designations	5'-AMP-activated protein kinase, catalytic alpha-1 chain|AMP -activate kinase alpha 1 subunit|AM P-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

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- Edema
- Hypercholesterolemia
- Metabolic Syndrome X
- Neoplasms
- Osteoporosis
- Rectal Neoplasms

Copyright © 2023 Abnova Corporation. All Rights Reserved.