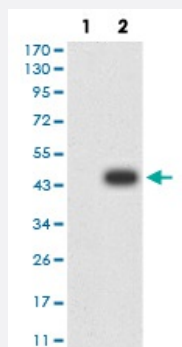


PRKAG3 monoclonal antibody, clone 2C7A7

Catalog # MAB17508

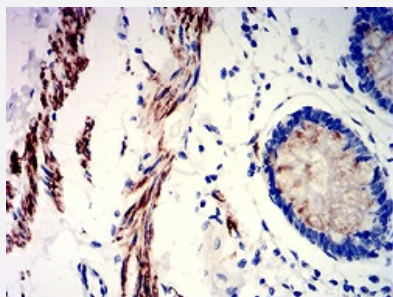
Size 100 ug

Applications



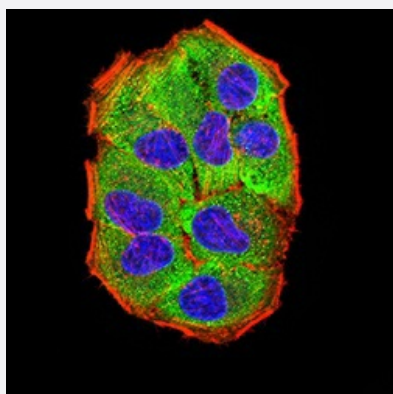
Western Blot (Transfected lysate)

Western blot analysis of (1) HEK293 cells, (2) PRKAG3-hlgGfc transfected HEK293 cell lysate.



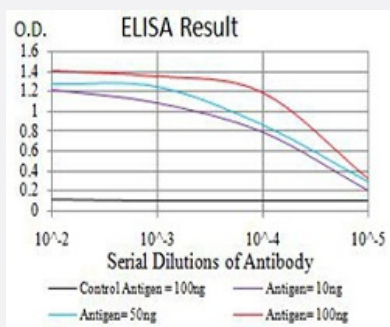
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of paraffin-embedded rectum tissues with PRKAG3 monoclonal antibody.



Immunocytochemistry

Immunocytochemical staining of HeLa cells with PRKAG3 monoclonal antibody (green). DRAQ5 fluorescent DNA dye (blue). Actin filaments labeled with Alexa Fluor-555 phalloidin (red).



Enzyme-linked Immunoabsorbent Assay

ELISA analysis of PRKAG3 monoclonal antibody, clone 2C7A7.

Specification

Product Description	Mouse monoclonal antibody raised against recombinant human PRKAG3.
Immunogen	Recombinant protein corresponding to amino acid 9-151 of human PRKAG3 from <i>E. coli</i> .
Host	Mouse
Theoretical MW (kDa)	54.3
Reactivity	Human
Form	Liquid
Isotype	IgG1
Recommend Usage	ELISA (1:10000) Western Blot (1:500-1:2000) Immunocytochemistry (1:200-1:1000) Flow Cytometry Immunohistochemistry (1:200-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.05% sodium azide).
Storage Instruction	Store at 4°C. For long term storage 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 (Transfected lysate)

Western blot analysis of (1) HEK293 cells, (2) PRKAG3-hlgGFc transfected HEK293 cell lysate.

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of paraffin-embedded rectum tissues with PRKAG3 monoclonal antibody.

- Immunocytochemistry

Immunocytochemical staining of HeLa cells with PRKAG3 monoclonal antibody (green). DRAQ5 fluorescent DNA dye (blue). Actin filaments labeled with Alexa Fluor-555 phalloidin (red).

- Enzyme-linked Immunoabsorbent Assay

ELISA analysis of PRKAG3 monoclonal antibody, clone 2C7A7.

Gene Info — PRKAG3

Entrez GeneID [53632](#)

Gene Name PRKAG3

Gene Alias AMPKG3

Gene Description protein kinase, AMP-activated, gamma 3 non-catalytic subunit

Omim ID [604976](#)

Gene Ontology [Hyperlink](#)

Gene Summary

The protein encoded by this gene is a regulatory subunit of the AMP-activated protein kinase (AMPK). AMPK is a heterotrimer consisting of an alpha catalytic subunit, and non-catalytic beta and gamma subunits. AMPK is an important energy-sensing enzyme that monitors cellular energy status. In response to cellular metabolic stresses, AMPK is activated, and thus phosphorylates and inactivates acetyl-CoA carboxylase (ACC) and beta-hydroxy beta-methylglutaryl-CoA reductase (HMGCR), key enzymes involved in regulating de novo biosynthesis of fatty acid and cholesterol. This subunit is one of the gamma regulatory subunits of AMPK. It is dominantly expressed in skeletal muscle. Studies of the pig counterpart suggest that this subunit may play a key role in the regulation of energy metabolism in skeletal muscle. [provided by RefSeq]

Other Designations 5'-AMP-activated protein kinase, gamma-3 subunit|AMP-activated protein kinase, non-catalytic gamma-3 subunit|AMPK gamma-3 chain|OTTHUMP00000164095

Pathway

- [Adipocytokine signaling pathway](#)

- [Hypertrophic cardiomyopathy \(HCM\)](#)
- [Insulin signaling pathway](#)

Disease

- [Alzheimer disease](#)
- [Atherosclerosis](#)
- [Calcinosis](#)
- [Cardiovascular Diseases](#)
- [Coronary Artery Disease](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Drug Toxicity](#)
- [Edema](#)
- [Metabolic Syndrome X](#)
- [Neoplasms](#)
- [Osteoporosis](#)