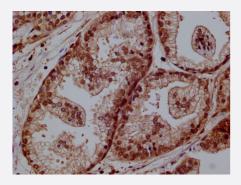


RecomAb™

PRKAG1 recombinant monoclonal antibody, clone 5E5

Catalog # RAB07560 Size 100 uL

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections)

Immunohistochemical analysis of paraffin-embedded human prostate cancer using PRKAG1 recombinant monoclonal antibody, clone 5E5 (Cat # RAB07560) on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human PRKAG1.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide corresponding to human PRKAG1.
Reactivity	Human
Form	Liquid
Purification	Affinity chromatography purification
Isotype	lgG
Recommend Usage	ELISA Immunohistochemistry (1:50-1:200) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH7.4 (150 mM NaCl, 0.02% sodium azide and 50% glycerol)



Product Information

Storage Instruction

Aliquot to avoid repeated freezing and thawing.

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

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

Store at -20°C or -80°C.

Immunohistochemical analysis of paraffin-embedded human prostate cancer using PRKAG1 recombinant monoclonal antibody, clone 5E5 (Cat # RAB07560) on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.

Enzyme-linked Immunoabsorbent Assay

Gene Info — PRKAG1

Entrez GenelD	<u>5571</u>
Protein Accession#	<u>P54619</u>
Gene Name	PRKAG1
Gene Alias	AMPKG, MGC8666
Gene Description	protein kinase, AMP-activated, gamma 1 non-catalytic subunit
Omim ID	<u>602742</u>
Gene Ontology	<u>Hyperlink</u>
Gene Summary	The protein encoded by this gene is a regulatory subunit of the AMP-activated protein kinase (AM PK). AMPK is a heterotrimer consisting of an alpha catalytic subunit, and non-catalytic beta and g amma subunits. AMPK is an important energy-sensing enzyme that monitors cellular energy statu s. In response to cellular metabolic stresses, AMPK is activated, and thus phosphorylates and ina ctivates acetyl-CoA carboxylase (ACC) and beta-hydroxy beta-methylglutaryl-CoA reductase (HM GCR), key enzymes involved in regulating de novo biosynthesis of fatty acid and cholesterol. This subunit is one of the gamma regulatory subunits of AMPK. Alternatively spliced transcript variants encoding distinct isoforms have been observed. [provided by RefSeq
Other Designations	5'-AMP-activated protein kinase, gamma-1 subunit AMP-activated protein kinase, noncatalytic ga mma-1 subunit AMPK gamma-1 chain



Pathway

- Adipocytokine signaling pathway
- Hypertrophic cardiomyopathy (HCM)
- Insulin signaling pathway

Disease

- Atherosclerosis
- <u>Calcinosis</u>
- <u>Cardiovascular Diseases</u>
- <u>Coronary Artery Disease</u>
- Diabetes Mellitus
- Drug Toxicity
- Edema
- Hypercholesterolemia