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订购热线: 4008-898-798

Anti-PRKAA2 antibody

Cat. No.	ml221614
Package	25 μl/100 μl/200 μl
Storage	-20°C, pH7.4 PBS, 0.05% NaN3, 40% Glycerol

Product overview

Description	Anti-PRKAA2 rabbit polyclonal antibody
Applications	ELISA, WB, IHC
Immunogen	Fusion protein of human PRKAA2
Reactivity	Human, Mouse, Rat
Content	0.2 mg/ml
Host species	Rabbit
Ig class	Immunogen-specific rabbit IgG
Purification	Antigen affinity purification

Target information

Symbol	PRKAA2
Full name	protein kinase, AMP-activated, alpha 2 catalytic subunit

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Synonyms	AMPK; AMPK2; PRKAA; AMPKa2
Swissprot	P54646

Target Background

The protein encoded by this gene is a catalytic 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. Studies of the mouse counterpart suggest that this catalytic subunit may control whole-body insulin sensitivity and is necessary for maintaining myocardial energy homeostasis during ischemia.

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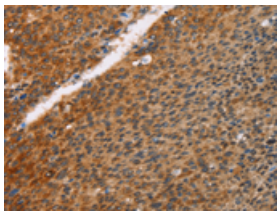
Applications

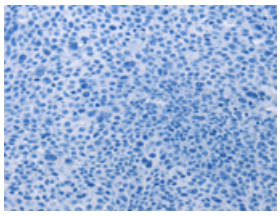
Immunohistochemistry

Predicted cell location: Cytoplasm

Positive control: Human liver cancer

Recommended dilution: 25-100



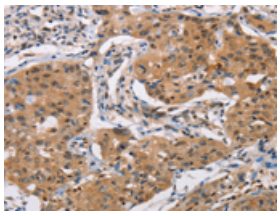


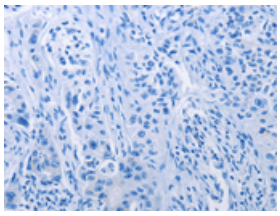
The image on the left is immunohistochemistry of paraffin-embedded Human liver cancer tissue using ml221614(PRKAA2 Antibody) at dilution 1/25, on the right is treated with fusion protein. (Original magnification: ×200)

Predicted cell location: Cytoplasm

Positive control: Human lung cancer

Recommended dilution: 25-100





The image on the left is immunohistochemistry of paraffin-embedded Human lung cancer tissue using ml221614(PRKAA2 Antibody) at dilution 1/25, on the right is treated with fusion protein. (Original magnification: ×200)

Western blotting

Predicted band size:62 kDa

Positive control:Raji cell and Mouse heart tissue lysates

Recommended dilution: 200-1000

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Gel: 8%SDS-PAGE

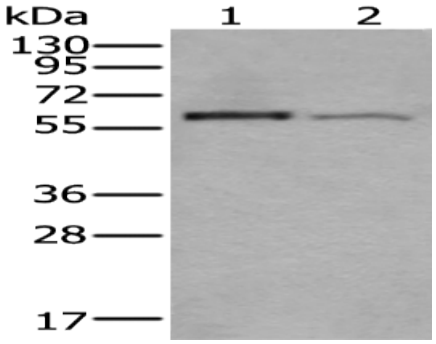
Lysate: 40 µg

Lane 1-2: Raji cell and Mouse heart tissue lysates

Primary antibody: ml221614(PRKAA2 Antibody) at dilution 1/400

Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution

Exposure time: 2 minutes



ELISA

Recommended dilution: 2000-5000

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