

PRKAA2 antibody (Ascites)

Mouse Monoclonal Antibody (Mab)

Catalog # AM1887a

Product Information

Application	WB, E
Primary Accession	P54646
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2a,IGK
Clone Names	206CT5.4.2

Additional Information

Other Names	5'-AMP-activated protein kinase catalytic subunit alpha-2, AMPK subunit alpha-2, Acetyl-CoA carboxylase kinase, ACACA kinase, Hydroxymethylglutaryl-CoA reductase kinase, HMGCR kinase, PRKAA2, AMPK, AMPK2
Target/Specificity	This PRKAA2 monoclonal antibody is generated from mouse immunized with PRKAA2 recombinant protein.
Dilution	WB~~1:500~2000 E~~Use at an assay dependent concentration.
Format	Mouse monoclonal antibody supplied in crude ascites with 0.09% (W/V) sodium azide.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	PRKAA2 antibody (Ascites) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Background

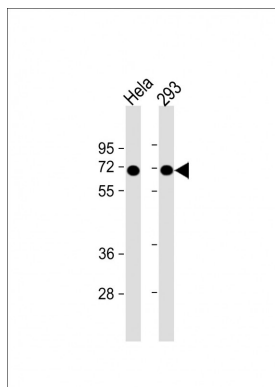
The protein encoded by this gene is a catalytic subunit of the AMP-activated protein kinase (AMPK). AMPK is a heterotrimer consisting of an alpha catalytic subunit, and non-catalytic beta and gamma subunits. AMPK is an important energy-sensing enzyme that monitors cellular energy status. In response 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.

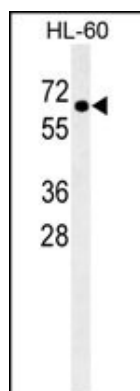
References

Jablonski, K.A., et al. Diabetes 59(10):2672-2681(2010)
Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)
Jassim, G., et al. Pharmacopsychiatry (2010) In press :
Bungard, D., et al. Science 329(5996):1201-1205(2010)
Ruano, G., et al. Pharmacogenomics 11(7):959-971(2010)

Images



All lanes : Anti- PRKAA2 antibody at 1:1000 dilution Lane 1: Hela whole cell lysate Lane 2: 293 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 62 kDa Blocking/Dilution buffer: 5% NFDm/TBST.



PRKAA2 (Cat. #AM1887a) western blot analysis in HL-60 cell line lysates (35µg/lane).This demonstrates the PRKAA2 antibody detected the PRKAA2 protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.