

Anti-AMPK alpha 1 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

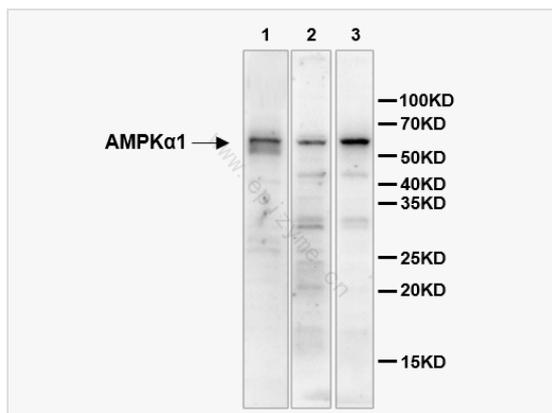
Catalog # R013729

Product Information

Application	WB, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000
Host	Rabbit
Clonality	Monoclonal
Clone No.	19B13C41
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human AMPK alpha 1
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-AMPK alpha 1 Rabbit mAb [19B13C41] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	5 AMP activated protein kinase alpha 1 catalytic subunit, 5 AMP activated protein kinase catalytic alpha 1 chain, 5' AMP activated protein kinase catalytic subunit alpha 1, 5'-AMP-activated protein kinase catalytic subunit alpha-1, AAPK1, AAPK1_HUMAN, ACACA kinase, acetyl CoA carboxylase kinase, AI194361, AI450832, AL024255, AMP -activate kinase alpha 1 subunit, AMP-activate kinase alpha 1 subunit, AMP-activated protein kinase, catalytic, alpha -1, AMPK 1, AMPK alpha 1, AMPK alpha 1 chain, AMPK, AMPK subunit alpha 1, AMPK subunit alpha-1, AMPK1, AMPKa1, AMPKalpha1, C130083N04Rik, cb116, EC 2.7.11.1, HMG CoA reductase kinase, HMGCR kinase, hormone sensitive lipase kinase, Hydroxymethylglutaryl CoA reductase kinase, im:7154392, kinase AMPK alpha1, MGC33776, MGC57364, OTTHUMP00000161795, OTTHUMP00000161796, PRKAA 1, PRKAA1, Protein kinase AMP activated alpha 1 catalytic subunit, SNF1-like protein AMPK, SNF1A, Tau protein kinase PRKAA1, wu:fa94c10.
Calculated MW	Calculated MW: 63 kDa; Observed MW: 63 kDa
Uniprot ID	Q13131
Gene ID	5562
Background	The protein encoded by this gene belongs to the ser/thr protein kinase family. It is the catalytic subunit of the 5'-prime-AMP-activated protein kinase (AMPK). AMPK is a cellular energy sensor conserved 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 through phosphorylation. It protects cells from stresses that cause ATP depletion by switching off ATP-consuming biosynthetic pathways. Alternatively spliced transcript variants encoding distinct isoforms have been observed. [provided by RefSeq, Jul 2008]



Western Blot - Anti-AMPK alpha 1 Rabbit mAb [19B13C41]

All lanes: R013729 at 1:1,000 dilution

Lane 1: A549 (human non-small cell lung cancer epithelial cell) whole cell lysates

Lane 2: T24 (human bladder cancer epithelial cell) whole cell lysates

Lane 3: C2C12 (mouse myoblasts epithelial cell) whole cell lysates

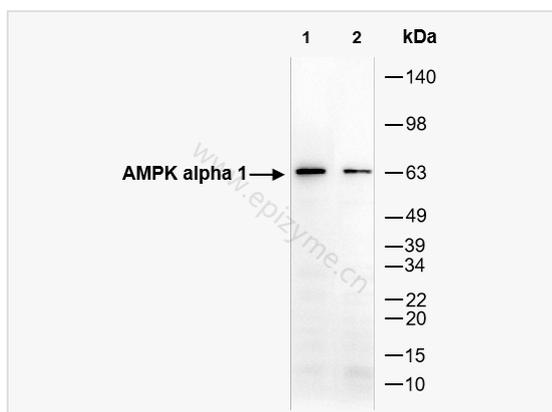
Lysates/proteins at 10 µg per lane.

Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 63 kDa

Observed band size: 63 kDa

Developed using the ECL technique (Cat. No. SQ201).



Western Blot - Anti-AMPK alpha 1 Rabbit mAb [19B13C41]

All lanes: R013729 at 1:1,000 dilution

Lane 1: C2C12 (Mouse myoblasts epithelial cell) whole cell lysates

Lane 2: PC-12 (Rat adrenal pheochromocytoma epithelial cell) whole cell lysates

Lysates/proteins at 10 µg per lane.

Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 63 kDa

Observed band size: 63 kDa

Developed using the ECL technique (Cat. No. SQ201).