

Anti-AMPK beta 1 Mouse mAb

Purified Recombinant Mouse Monoclonal Antibody

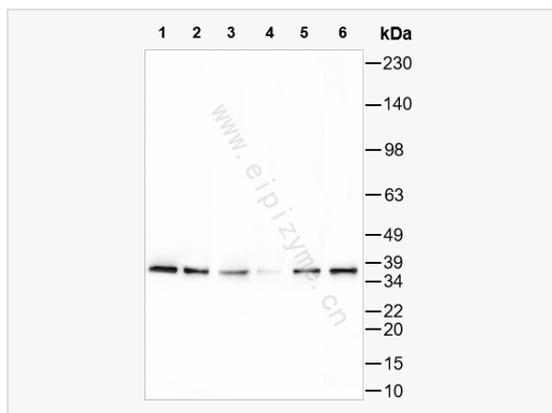
Catalog # M013558

Product Information

Application	WB, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000
Host	Mouse
Clonality	Monoclonal
Clone No.	98M57M46
Isotype	IgG
Label	Unconjugated
Immunogen	Recombinant protein of human AMPK beta 1
Format	Affinity purified monoclonal antibody supplied in PBS with 0.02% 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 beta 1 Mouse mAb [98M57M46] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	AMPK; HAMPKb; 1300015D22Rik; E430008F22; AAKBI_HUMAN; PRKABI; AMPK subunit beta-1; AMPKb; AAKBI_MOUSE; AAKBI_RAT; 5'-AMP-activated protein kinase 40 kDa subunit.
Calculated MW	Calculated MW: 30 kDa; Observed MW: 38 kDa
Uniprot ID	Q9Y478
Gene ID	5564
Background	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 may be a positive regulator of AMPK activity. The myristoylation and phosphorylation of this subunit have been shown to affect the enzyme activity and cellular localization of AMPK. This subunit may also serve as an adaptor molecule mediating the association of the AMPK complex. [provided by RefSeq, Jul 2008]



Western Blot - Anti-AMPK beta 1 Mouse mAb [98M57M46]

All lanes: M013558 at 1:1,000 dilution

Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates

Lane 2: C2C12 (Mouse myoblasts epithelial cell) whole cell lysates

Lane 3: Mouse liver whole tissue lysates

Lane 4: Mouse brain whole tissue lysates

Lane 5: PC-12 (Rat adrenal pheochromocytoma epithelial cell) whole cell lysates

Lane 6: Rat liver whole tissue lysates

Lysates/proteins at 10 μ g per lane.

Secondary antibody: Goat Anti-Mouse IgG(H+L), HRP Conjugated (Cat. No. LF101) at 1:5,000 dilution

Predicted band size: 30 kDa

Observed band size: 38 kDa

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