

Product Datasheet

AMPK beta 1 Mouse mAb

Catalog No: AB3464

Reactivity: Human

Isotype: Mouse IgG

Applications: WB



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Information

UniProt ID: Q9Y478

All Names: AMPK; HAMPKb

Form: Liquid

Storage instructions: Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Storage buffer: pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

Purity: Affinity-chromatography

Immunogen: A synthesized peptide

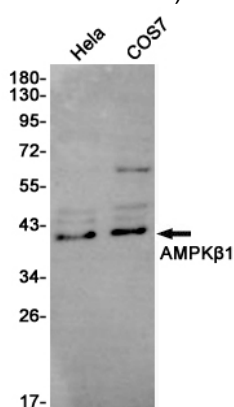
Molecular Wt.: 38kDa

Application

WB: 1/500-1/1000

Background

Swiss-Prot Acc.Q9Y478.Non-catalytic subunit of AMP-activated protein kinase (AMPK), an energy sensor protein kinase that plays a key role in regulating cellular energy metabolism. In response to reduction of intracellular ATP levels, AMPK activates energy-producing pathways and inhibits energy-consuming processes: inhibits protein, carbohydrate and lipid biosynthesis, as well as cell growth and proliferation. AMPK acts via direct phosphorylation of metabolic enzymes, and by longer-term effects via phosphorylation of transcription regulators. Also acts as a regulator of cellular polarity by remodeling the actin cytoskeleton; probably by indirectly activating myosin. Beta non-catalytic subunit acts as a scaffold on which the AMPK complex assembles, via its C-terminus that bridges alpha (PRKAA1 or PRKAA2) and gamma subunits (PRKAG1, PRKAG2 or PRKAG3).



Western blot detection of AMPKβ1 in HeLa, COS7 cell lysates using AMPK beta 1 Mouse mAb(1:1000 diluted). Predicted band size: 38KDa. Observed band size: 38KDa.

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