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AMPK beta 1 Antibody

Rabbit mAb
Catalog # AP90902

Product Information

Application	WB, FC
Primary Accession	Q9Y478
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Other Names	5''-AMP-activated protein kinase subunit beta-1; AMP-activated, noncatalytic, beta-1; AMPK; AMPK beta 1 chain; AMPK subunit beta-1; AMPK-BETA-1; AMPKb; HAMPKb; PRKAB1;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	30382

Additional Information

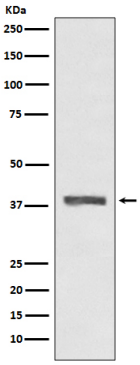
Dilution	WB 1:1000~1:2000 FC 1:50
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human AMPK beta 1
Description	AMP-activated protein kinase (AMPK) is highly conserved from yeast to plants and animals and plays a key role in the regulation of energy homeostasis. AMPK is a heterotrimeric complex composed of a catalytic α subunit and regulatory β and γ subunits, each of which is encoded by two or three distinct genes (α1, 2; β1, 2; γ1, 2, 3).
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Protein Information

Name	PRKAB1
Synonyms	AMPK
Function	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).

Images



Western blot analysis of AMPK beta 1 expression in HeLa cell lysate.