bsm-33427M **[Primary Antibody]**

AMPK b1 Mouse mAb

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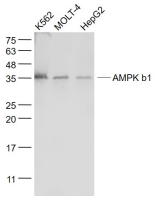
DATASHEET

Host: Mouse
Isotype: IgG1
Clonality: Monoclonal
CloneNo.: 2F2
GeneID: 5564
SWISS: Q9Y478
Target: AMPK b1
Immunogen: Recombinant human AMPK b1 Protein: 118-226/272.
Purification: affinity purified by Protein A
Concentration: 1mg/ml
Storage: Size : 50ul/100ul/200ul
0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Size : 200ug (PBS only)
0.01M PBS
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

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].

Applications: **WB** (1:500-2000)
Reactivity: Human (predicted: Mouse, Rat)
Predicted MW.: 30 kDa
Subcellular Location: Cytoplasm ,Nucleus

VALIDATION IMAGES



Sample: K562(Human) Cell Lysate at 30 ug
MOLT-4(Human) Cell Lysate at 30 ug
HepG2(Human) Cell Lysate at 30 ug Primary:
Anti- AMPK b1 (bsm-33427M) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Mouse IgG at
1/20000 dilution Predicted band size: 30 kD
Observed band size: 35 kD