**bsm-33426M** **[ Primary Antibody ]**

# AMPK b1 Mouse mAb

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## DATASHEET

**Host:** Mouse
**Isotype:** IgG1
**Clonality:** Monoclonal
**CloneNo.:** 3G2
**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].

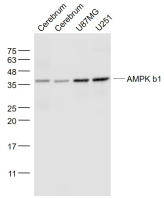
**Applications:** **WB** (1:500-2000)
**IHC-P** (1:100-500)
**IHC-F** (1:100-500)
**IF** (1:100-500)

**Reactivity:** Human, Mouse, Rat

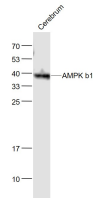
**Predicted MW.:** 30 kDa

**Subcellular Location:** Cytoplasm ,Nucleus

## VALIDATION IMAGES




Sample: Cerebrum (Mouse) Lysate at 40 ug Cerebrum (Rat) Lysate at 40 ug U87MG(Human) Cell Lysate at 30 ug U251(Human) Cell Lysate at 30 ug Primary: Anti- AMPK b1 (bsm-33426M) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution Predicted band size: 30 kD Observed band size: 38 kD

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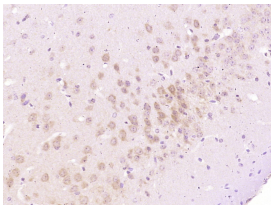

Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (AMPK b1) Monoclonal Antibody, Unconjugated (bsm-33426M) at 1:800 overnight at 4°C, followed by operating according to SP Kit(Mouse) (sp-0024) instructions and DAB staining.

## SELECTED CITATIONS

- **[IF=7.129]** Xing Guo. et al. Microcystin leucine arginine induces human sperm damage: Involvement of the

Ca2+/CaMKKβ/AMPK pathway. ECOTOX ENVIRON SAFE. 2023 May;256:114845 WB ;Human. 37001189

- **[IF=5.811]** Han Xue. et al. Protective Effects of 6-Gingerol on Cardiotoxicity Induced by Arsenic Trioxide Through AMPK/SIRT1/PGC-1α Signaling Pathway. FRONT PHARMACOL. 2022 Apr;0:1298 WB ;Mouse. 35571130
- **[IF=2.843]** Lili Jin. et al. A synthetic peptide AWRK6 ameliorates metabolic associated fatty liver disease: involvement of lipid and glucose homeostasis. Peptides. 2021 Sep;143:170597 WB ;Mouse. 34118361