

**bsm-33338M****[ Primary Antibody ]****BioSS**  
ANTIBODIES

www.bioss.com.cn

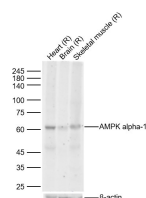
sales@bioss.com.cn

techsupport@bioss.com.cn

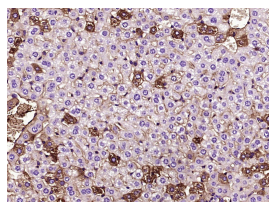
400-901-9800

**AMPK alpha-1 Mouse mAb****— DATASHEET —**

|   |   |   |
|---|---|---|
| <b>Host:</b> Mouse<br><b>Clonality:</b> Monoclonal<br><b>GeneID:</b> 5562<br><b>Target:</b> AMPK alpha-1<br><b>Purification:</b> affinity purified by Protein G<br><b>Concentration:</b> 1mg/ml<br><b>Storage:</b> Size : 50ul/100ul/200ul<br>0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.<br>Size : 200ug (PBS only)<br>0.01M PBS<br>Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.<br><b>Background:</b> The protein encoded by this gene belongs to the ser/thr protein kinase family. It is the catalytic subunit of the 5'-prime-AMP-activated protein kinase (AMPK). AMPK is a cellular energy sensor conserved in all eukaryotic cells. The kinase activity of AMPK is activated by the stimuli that increase the cellular AMP/ATP ratio. AMPK regulates the activities of a number of key metabolic enzymes through phosphorylation. It protects cells from stresses that cause ATP depletion by switching off ATP-consuming biosynthetic pathways. Alternatively spliced transcript variants encoding distinct isoforms have been observed. [provided by RefSeq, Jul 2008] | <b>Isotype:</b> IgG1<br><b>CloneNo.:</b> 11G3 | <b>Applications:</b> <b>WB</b> (1:500-1000)<br><b>IHC-P</b> (1:200-800)<br><b>IHC-F</b> (1:200-500)<br><b>IF</b> (1:200-500)<br><b>Reactivity:</b> Human, Mouse, Rat<br><br><b>Predicted MW.:</b> 64 kDa<br><b>Subcellular Location:</b> Cytoplasm ,Nucleus |
|---|---|---|

**— VALIDATION IMAGES —**

Sample: Lane 1: Rat Heart Lysates Lane 2: Rat Brain Lysates Lane 3: Rat Skeletal muscle Lysates  
Primary: Anti-AMPK alpha-1 (bsm-33338M) at 1/1000 dilution  
Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution  
Predicted band size: 64kDa  
Observed band size: 64kDa



Paraformaldehyde-fixed, paraffin embedded (Mouse liver); 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 alpha-1) Monoclonal Antibody, Unconjugated (bsm-33338M) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Mouse) (sp-0024) instructions and DAB staining.

**— SELECTED CITATIONS —**

- **[IF=11.413]** Fengfeng Li. et al. Anthelmintics nitazoxanide protects against experimental hyperlipidemia and hepatic steatosis in hamsters and mice. Acta Pharm Sin B. 2021 Sep; WB ;Human. 10.1016/j.apsb.2021.09.009
- **[IF=8.073]** Shuang-Feng Xu. et al. Astrocyte-specific loss of lactoferrin influences neuronal structure and function by interfering with cholesterol synthesis. GLIA. 2022 Aug; WB ;Mouse. 35946355
- **[IF=3.5]** Xin Tong. et al. Astrocyte lactoferrin deficiency affects the construction and function of spinal neurons by

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

regulating cholesterol metabolism. EXP CELL RES. 2025 Jun;449:114595 WB ;Mouse. 40334811