

bsm-33236M**[Primary Antibody]****BioSS**
ANTIBODIES

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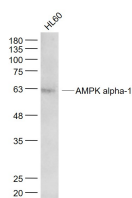
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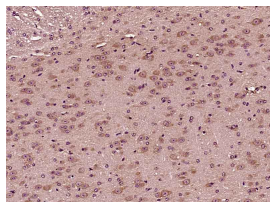
400-901-9800

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

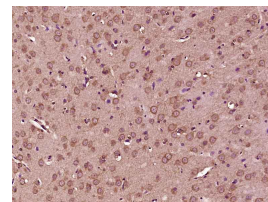
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|---|---|---|
| Host: Mouse Clonality: Monoclonal GeneID: 5562 Target: AMPK alpha-1 Purification: affinity purified by Protein G Concentration: 1mg/ml Storage: Size : 50ul/100ul/200ul 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. 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 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] | Isotype: IgG1 CloneNo.: 7G11 | Applications: WB (1:500-1000) IHC-P (1:200-800) IHC-F (1:200-500) IF (1:200-500) Reactivity: Human, Mouse, Rat Predicted MW.: 64 kDa Subcellular Location: Cytoplasm ,Nucleus |
|---|---|---|

— VALIDATION IMAGES —

Sample: HL60(Human) Cell Lysate at 30 ug
Primary: Anti- AMPK alpha-1 (bsm-33236M) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution Predicted band size: 64 kD Observed band size: 64 kD



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 alpha-1) Monoclonal Antibody, Unconjugated (bsm-33236M) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Mouse) (sp-0024) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Rat 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 alpha-1) Monoclonal Antibody, Unconjugated (bsm-33236M) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Mouse) (sp-0024) instructions and DAB staining.

— SELECTED CITATIONS —

- **[IF=4.545]** Yanli Guo. et al. Marein ameliorates diabetic nephropathy by inhibiting renal sodium glucose transporter 2 and activating the AMPK signaling pathway in db/db mice and high glucose-treated HK-2 cells. Biomed Pharmacother. 2020 Nov;131:110684 **WB ;Human**. 33152903
- **[IF=5.2]** Jinjing Jia. et al. Thioredoxin-1 Promotes Mitochondrial Biogenesis Through Regulating AMPK/Sirt1/PGC1α Pathway in Alzheimer's Disease. ASN NEURO. ;(): **WB ;Mouse**. 36823760

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

- **[IF=5.168]** Danning Tong. et al. Aspirin alleviates cisplatin-induced acute kidney injury through the AMPK-PGC-1 α signaling pathway. CHEM-BIOL INTERACT. 2023 Aug;380:110536 WB ;Mouse. 37179038