bsm-52132R **[Primary Antibody]**

phospho-AMPK alpha 1 (Ser496) Recombinant Rabbit mAb

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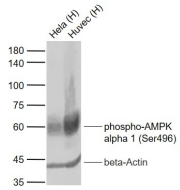
DATASHEET

Host: Rabbit
Isotype: IgG
Clonality: Recombinant
CloneNo.: 11G1
GeneID: 105787
SWISS: Q5EG47
Target: AMPK alpha 1 (Ser496)
Immunogen: KLH conjugated Synthesised phosphopeptide derived from mouse AMPK alpha 1 around the phosphorylation site of Ser496: SG(p-S)VS.
Purification: affinity purified by Protein A
Concentration: 1mg/ml
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
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]

Applications: **WB** (1:500-2000)
ICC/IF (1:50-200)
Reactivity: Human (predicted: Mouse, Rat)
Predicted MW.: 64 kDa
Subcellular Location: Cytoplasm ,Nucleus

VALIDATION IMAGES



Sample: Lane 1: Hela (Human) Cell Lysate at 30 ug Lane 2: Huvec (Human) Cell Lysate at 30 ug Primary: Anti-phospho-AMPK alpha 1 (Ser496) (bsm-52132R) at 1/1000 dilution Anti-beta-Actin (bs-0061R) at 1/2000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 63 kD Observed band size: 60 kD

SELECTED CITATIONS

- **[IF=7.514]** Yi Wu. et al. Selective transportation and energy homeostasis regulation of dietary advanced glycation end-products in human intestinal Caco-2 cells. FOOD CHEM. 2022 Oct;391:133284 WB ;Human. 35640343
- **[IF=5.168]** Danning Tong. et al. Aspirin alleviates cisplatin-induced acute kidney injury through the AMPK-PGC-1α signaling pathway. CHEM-BIOL INTERACT. 2023 Aug;380:110536 WB ;Mouse. 37179038
- **[IF=3.1]** Huixian Lu. et al. The serine protease 2 gene regulates lipid metabolism through the LEP/ampkα1/SREBP1 pathway in bovine mammary epithelial cells. BIOCHEM BIOPH RES CO. 2024 Feb;698:149558 WB ;Bovine. 38271832