

**bs-13402R****[ Primary Antibody ]****phospho-AMPK alpha 1 (Ser496) Rabbit pAb****BioSS**  
**ANTIBODIES**

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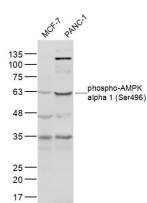
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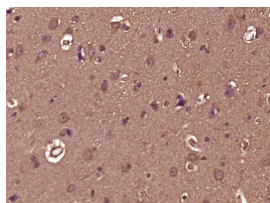
400-901-9800

**— DATASHEET —**

<b>Host:</b> Rabbit <b>Clonality:</b> Polyclonal <b>GeneID:</b> 5562 <b>Target:</b> phospho-AMPK alpha 1 (Ser496) <b>Immunogen:</b> KLH conjugated Synthesised phosphopeptide derived from human AMPK alpha 1 around the phosphorylation site of Ser496: SG(p-S)VS. <b>Purification:</b> affinity purified by Protein A <b>Concentration:</b> 1mg/ml <b>Storage:</b> 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. <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> IgG <b>Applications:</b> <b>WB</b> (1:500-2000) <b>IHC-P</b> (1:100-500) <b>IHC-F</b> (1:100-500) <b>IF</b> (1:100-500) <b>Reactivity:</b> Human, Mouse <b>Predicted MW.:</b> 64 kDa <b>Subcellular Location:</b> Cytoplasm ,Nucleus
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**— VALIDATION IMAGES —**

Sample: MCF-7(Human) Cell Lysate at 40 ug  
PANC-1(Human) Cell Lysate at 40 ug Primary:  
Anti-phospho-AMPK alpha 1 (Ser496)  
(bs-10196R) at 1/300 dilution Secondary:  
IRDye800CW Goat Anti-Rabbit IgG at 1/20000  
dilution Predicted band size: 64 kD Observed  
band size: 64 kD



Paraformaldehyde-fixed, paraffin embedded  
(Human brain glioma); 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 (phospho-AMPK alpha  
1 (Ser496)) Polyclonal Antibody, Unconjugated  
(bs-13402R) at 1:400 overnight at 4°C, followed  
by operating according to SP Kit(Rabbit)  
(sp-0023) instructions and DAB staining.

**— SELECTED CITATIONS —**

- **[IF=4.225]** Li H et al . Trimetazidine Ameliorates Myocardial Metabolic Remodeling in Isoproterenol-Induced Rats Through Regulating Ketone Body Metabolism via Activating AMPK and PPAR  $\alpha$  Front Pharmacol. 2020 Aug 14;11:1255. Other ;. 32922293
- **[IF=3.063]** Mengmeng Yu. et al. Taurine attenuates gossypol-induced apoptosis of C2C12 mouse myoblasts via the

GPR87-AMPK/AKT signaling. Amino Acids. 2020 Sep;52(9):1285-1298 WB ;Mouse. 32918616

- **[IF=3.1]** Tian Xiaorong. et al. Heme Oxygenase-1-Modified BMSCs Activate AMPK–Nrf2–FTH1 to Reduce Severe Steatotic Liver Ischemia–Reperfusion Injury. DIGEST DIS SCI. 2023 Sep;:1-16 IF, WB ;Rat. 37707747