

**bs-13401R****[ Primary Antibody ]****phospho-AMPK alpha 1 (Ser496) Rabbit pAb****BioSS**  
ANTIBODIES

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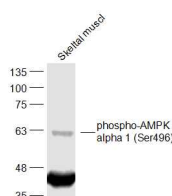
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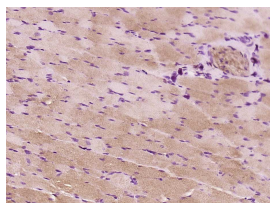
400-901-9800

**— DATASHEET —**

<b>Host:</b> Rabbit	<b>Isotype:</b> IgG	<b>Applications:</b> <b>WB</b> (1:500-2000)
<b>Clonality:</b> Polyclonal		<b>IHC-P</b> (1:100-500)
<b>GeneID:</b> 105787	<b>SWISS:</b> Q5EG47	<b>IHC-F</b> (1:100-500)
<b>Target:</b> AMPK alpha 1 (Ser496)		<b>IF</b> (1:100-500)
<b>Immunogen:</b> KLH conjugated Synthesised phosphopeptide derived from mouse AMPK alpha 1 around the phosphorylation site of Ser496: SG(p-S)IS.		<b>Reactivity:</b> Mouse, Rat
<b>Purification:</b> affinity purified by Protein A		
<b>Concentration:</b> 1mg/ml		<b>Predicted MW.:</b> 64 kDa
<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>Subcellular Location:</b> Cytoplasm ,Nucleus
<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]		

**— VALIDATION IMAGES —**

Sample: Skeletal muscle(Rat) Cell Lysate at 40 ug  
 Primary: Anti-phospho-AMPK alpha 1 (Ser496)  
 (bs-13401R) 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  
 (Rat skeletal muscle); 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-13401R) at 1:500 overnight at 4°C, followed  
 by a conjugated secondary (sp-0023) for 20  
 minutes and DAB staining.

**— SELECTED CITATIONS —**

- **[IF=3.7]** Sun Xuri. et al. Exogenous NT-3 Promotes Phenotype Switch of Resident Macrophages and Improves Sciatic Nerve Injury through AMPK/NF-κB Signaling Pathway. NEUROCHEM RES. 2024 Jun;;1-15 WB ;Rat. 38904909