

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

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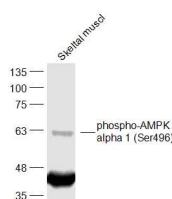
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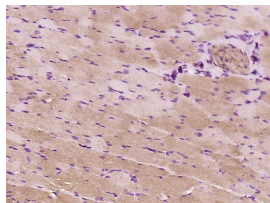
400-901-9800

— DATASHEET —

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

— 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