

---

## phospho-AMPK alpha 1 (Ser496) Rabbit pAb

Catalog Number: bs-13401R

Target Protein: phospho-AMPK alpha 1 (Ser496)

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: WB (1:500-2000), IHC-P (1:100-500), IHC-F (1:100-500), IF (1:100-500)

Reactivity: Mouse, Rat

Predicted MW: 64 kDa

Entrez Gene: 105787

Swiss Prot: Q5EG47

Source: KLH conjugated Synthesised phosphopeptide derived from mouse AMPK alpha 1 around the phosphorylation site of Ser496: SG(p-S)IS.

Purification: affinity purified by Protein A

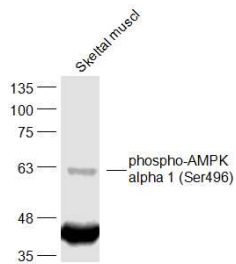
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

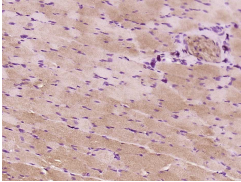
**Background:** The protein encoded by this gene belongs to the ser/thr protein kinase family. It is the catalytic subunit of the 5'-prime-AMP-activated protein kinase (AMPK). AMPK is a cellular energy sensor conserved in all eukaryotic cells. The kinase activity of AMPK is activated by the stimuli that 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]

### 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.

## PRODUCT SPECIFIC PUBLICATIONS

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