
phospho-AMPK alpha 1 (Ser496) Rabbit pAb

Catalog Number: bs-13402R

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: Human, Mouse

Predicted MW: 64 kDa

Entrez Gene: 5562

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

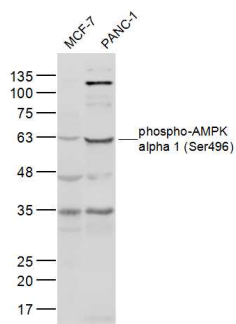
Purification: affinity purified by Protein A

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

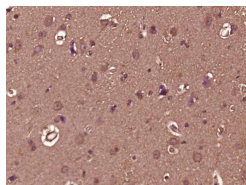
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

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: 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.

PRODUCT SPECIFIC PUBLICATIONS

[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 α 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 BMMSCs Activate AMPK–Nrf2–FTH1 to Reduce Severe Steatotic Liver Ischemia–Reperfusion Injury. DIGEST DIS SCI. 2023 Sep;:1-16 IF,WB ; Rat . 37707747