

bs-10344R**[Primary Antibody]****AMPK alpha-1 Rabbit pAb****BioSS**
ANTIBODIES

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— DATASHEET —

Host: Rabbit	Isotype: IgG	Applications: ELISA (1:5000-10000)
Clonality: Polyclonal		Reactivity: (predicted: Human, Mouse, Rat, Rabbit, Sheep, Cow)
GeneID: 5562		
Target: AMPK alpha-1		Predicted MW.: 64 kDa
Immunogen: KLH conjugated synthetic peptide derived from human AMPK alpha-1: 351-450/559.		Subcellular Location: Cytoplasm ,Nucleus
Purification: affinity purified by Protein A		
Concentration: 1mg/ml		
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]		

— SELECTED CITATIONS —

- **[IF=4.784]** Pan Y et al. Regulatory effect of Grifola frondosa extract rich in polysaccharides and organic acids on glycolipid metabolism and gut microbiota in rats. Int J Biol Macromol. 2019 Nov 8. pii: S0141-8130(19)37563-4. WB ;Rat. 31712147
- **[IF=4.848]** Prado-Garcia H et al. Lactic Acidosis in the Presence of Glucose Diminishes Warburg Effect in Lung Adenocarcinoma Cells. Front Oncol. 2020 Jun 12;10:807. FCM ;Human. 32596143
- **[IF=5.4]** Chunqiu Fang. et al. Tiaogan Jiejie Tongluo Formula attenuated alcohol-induced chronic liver injury by regulating lipid metabolism in rats. J ETHNOPHARMACOL. 2023 Dec;317:116838 IHC,WB ;Rat. 37355081
- **[IF=5]** Feng Gao. et al. Catalpol ameliorates LPS-induced inflammatory response by activating AMPK/mTOR signaling pathway in rat intestinal epithelial cells. EUR J PHARMACOL. 2023 Dec;960:176125 WB ;Rat. 37890606
- **[IF=3.8]** Chunhong Liu. et al. Anticancer activity of Weizmannia coagulans MZY531 on H22 tumor-bearing mice by regulating inflammation, autophagy-dependent apoptosis, and gut microbiota. scientific reports. 2025 Mar 10;15(1):8250. Western blot ;Mouse. 4006505