

AMPK alpha-1 Rabbit pAb

Catalog Number: bs-10344R
Target Protein: AMPK alpha-1
Concentration: 1mg/ml
Form: Liquid
Host: Rabbit
Clonality: Polyclonal
Isotype: IgG
Applications: ELISA (1:5000-10000)
Reactivity: (predicted:Human, Mouse, Rat, Rabbit, Sheep, Cow)
Predicted MW: 64 kDa
Entrez Gene: 5562
Source: KLH conjugated synthetic peptide derived from human AMPK alpha-1: 351-450/559.
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]

PRODUCT SPECIFIC PUBLICATIONS

[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 Jiejiu 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] Ahmed Mohammad Ejaz. et al. Therapeutic utility of Perfluorocarbon Oxygent in limiting the severity of subarachnoid hemorrhage in mice. SCI REP-UK. 2024 Nov;14(1):1-16 WB ; Mouse . 39496694