bs-3027R **[Primary Antibody]**

phospho-AMPK beta 1 + AMPK beta 2 (Ser182/Ser184) Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 5564 **SWISS:** Q9Y478

Target: AMPK beta 1 + AMPK beta 2 (Ser182/Ser184)

Immunogen: KLH conjugated synthesised phosphopeptide derived from human AMPK beta 1 around the phosphorylation site of Ser182: SS(p-S)PP.

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 is a regulatory subunit of the AMP-activated protein kinase (AMPK). AMPK is a heterotrimer consisting of an alpha catalytic subunit, and non-catalytic beta and gamma subunits. AMPK is an important energy-sensing enzyme that monitors cellular energy status. In response to cellular metabolic stresses, AMPK is activated, and thus phosphorylates and inactivates acetyl-CoA carboxylase (ACC) and beta-hydroxy beta-methylglutaryl-CoA reductase (HMGCR), key enzymes involved in regulating de novo biosynthesis of fatty acid and cholesterol. This subunit may be a positive regulator of AMPK activity. The myristoylation and phosphorylation of this subunit have been shown to affect the enzyme activity and cellular localization of AMPK. This subunit may also serve as an adaptor molecule mediating the association of the AMPK complex. [provided by RefSeq, Jul 2008].

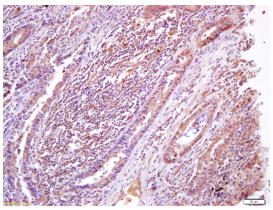
Applications: **IHC-P** (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (2ug/Test)
ICC/IF (1:50)

Reactivity: Human, Mouse, Rat (predicted: Rabbit, Cow, Dog, Horse)

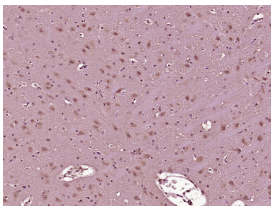
Predicted MW.: 30 kDa

Subcellular Location: Cytoplasm ,Nucleus

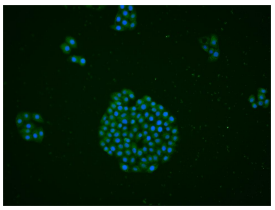
VALIDATION IMAGES



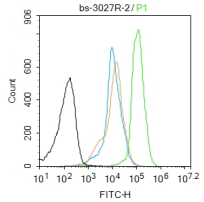
Tissue/cell: human lung carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-phospho-AMPK beta 1(Ser182) Polyclonal Antibody, Unconjugated(bs-3027R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Paraformaldehyde-fixed, paraffin embedded (Rat brain); 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 beta 1 + AMPK beta 2 (Ser182/Ser184)) Polyclonal Antibody, Unconjugated (bs-3027R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



MCF-7 cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (phospho-AMPK beta 1 + AMPK beta 2 (Ser182/Ser184)) polyclonal Antibody, Unconjugated (bs-3027R) 1:50, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.



Blank control:Mouse spleen. Primary Antibody (green line): Rabbit Anti-STK38 antibody (bs-3027R) Dilution: 2µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-AF488 Dilution: 1µg /test. Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol for 20 min at-20°C. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

SELECTED CITATIONS

- **[IF=3.097]** Rui Guo. et al. Ulinastatin attenuates spinal cord injury by targeting AMPK/NLRP3 signaling pathway. J CHEM NEUROANAT. 2022 Nov;125:102145 WB ;Rat,Mouse. 35998795
- **[IF=2.923]** Xing Zhang. et al. Effect of Astragalus polysaccharides on the cryopreservation of goat semen. THERIOGENOLOGY. 2022 Aug;: WB ;Goat. 10.1016/j.theriogenology.2022.08.007