

**bs-8813R****[ Primary Antibody ]**

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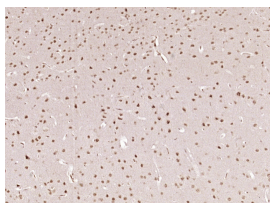
400-901-9800

## phospho-AMPK alpha 1 (Thr183) + AMPK alpha 2 (Thr172) Rabbit pAb

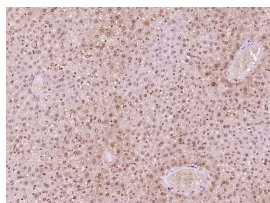
### — DATASHEET —

<p><b>Host:</b> Rabbit</p> <p><b>Clonality:</b> Polyclonal</p> <p><b>GeneID:</b> 5562</p> <p><b>Target:</b> phospho-AMPK alpha 1 (Thr183) + AMPK alpha 2 (Thr172)</p> <p><b>Immunogen:</b> KLH conjugated Synthesised phosphopeptide derived from human AMPK alpha 1 around the phosphorylation site of Thr183: LR(p-T)SC.</p> <p><b>Purification:</b> affinity purified by Protein A</p> <p><b>Concentration:</b> 1mg/ml</p> <p><b>Storage:</b> 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.</p> <p><b>Background:</b> 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]</p>	<p><b>Isotype:</b> IgG</p> <p><b>Applications:</b> IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) Flow-Cyt (1ug/test)</p> <p><b>Reactivity:</b> Human, Mouse, Rat (predicted: Rabbit, Pig, Sheep, Cow, Chicken, Dog, Horse)</p> <p><b>Predicted MW.:</b> 63 kDa</p> <p><b>Subcellular Location:</b> Cytoplasm ,Nucleus</p>
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### — VALIDATION IMAGES —



Paraformaldehyde-fixed, paraffin embedded (Mouse 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 (AMPK alpha 1 (phospho T183) + AMPK alpha 2 (phospho T172)) Polyclonal Antibody, Unconjugated (bs-8813R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Mouse liver); 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 (AMPK alpha 1 (phospho T183) + AMPK alpha 2 (phospho T172)) Polyclonal Antibody, Unconjugated (bs-8813R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

### — SELECTED CITATIONS —

- **[IF=8.2]** Yaqi Li. et al. Non-thermal plasma promotes boar sperm quality through increasing AMPK methylation. INT J BIOL MACROMOL. 2024 Feb;257:128768 WB ;Pig. 38096931
- **[IF=4.872]** Jianzhao Liao. et al. Copper induces energy metabolic dysfunction and AMPK-mTOR pathway-mediated autophagy in kidney of broiler chickens. Ecotox Environ Safe. 2020 Dec;206:111366 WB ;Chicken. 33010598

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

- **[IF=5.085]** Feng Yanzhong. et al. Ulva prolifera Extract Alleviates Intestinal Oxidative Stress via Nrf2 Signaling in Weaned Piglets Challenged With Hydrogen Peroxide. Front Immunol. 2020 Oct;11:2840 WB ;Pig. 33193455
- **[IF=3.9]** Dong Zhixia. et al. Adiponectin Inhibits NLRP3 Inflammasome Activation in Nonalcoholic Steatohepatitis via AMPK-JNK/ErK1/2-NFκB/ROS Signaling Pathways. Front Med-Lausanne. 2020 Nov;7:705 WB ;Mouse. 33251225
- **[IF=1.641]** Tian - Yu Feng. et al. Rosmarinic acid improves boar sperm quality, antioxidant capacity and energy metabolism at 17°C via AMPK activation. Reprod Domest Anim. 2020 Dec;55(12):1714-1724 WB ;Pig. 32969084