

bs-20751R**[Primary Antibody]****UCP-2 Rabbit pAb****BioSS**
ANTIBODIES

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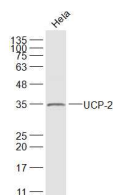
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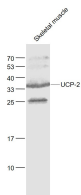
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— DATASHEET —

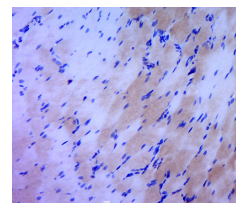
Host: Rabbit Clonality: Polyclonal GeneID: 7351 Target: UCP-2 Immunogen: KLH conjugated synthetic peptide derived from human UCP-2: 51-120/309. Purification: affinity purified by Protein A Concentration: 1mg/ml Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles. Background: UCPs facilitate the transfer of anions from the inner to the outer mitochondrial membrane and the return transfer of protons from the outer to the inner mitochondrial membrane. They also reduce the mitochondrial membrane potential in mammalian cells. UCP2 gene is expressed in many tissues, with the greatest expression in skeletal muscle. UCP2 is thought to play a role in non shivering thermogenesis, obesity and diabetes.	Isotype: IgG SWISS: P55851	Applications: WB (1:500-2000) IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) Reactivity: Human, Mouse, Rat (predicted: Rabbit, Pig, Sheep, Cow, Dog, Horse) Predicted MW.: 34 kDa Subcellular Location: Cytoplasm
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— VALIDATION IMAGES —

Sample: HeLa(Human) Cell Lysate at 30 ug
Primary: Anti-UCP-2 (bs-20751R) at 1/1000
dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 34 kD Observed band size: 34 kD



Sample: Skeletal muscle (Mouse) Lysate at 40 ug
Primary: Anti-UCP-2 (bs-20751R) at 1/500
dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 34 kD Observed band size: 35 kD



Paraformaldehyde-fixed, paraffin embedded (rat skeletal muscle); 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 (UCP-2) Polyclonal Antibody, Unconjugated (bs-20751R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.

— SELECTED CITATIONS —

- **[IF=3.038]** Lan Yang et al. The Involvement of Mitochondrial Biogenesis in Selenium Reduced Hyperglycemia-Aggravated Cerebral Ischemia Injury. *Neurochem Res.* 2020 Aug;45(8):1888-1901. **WB ;Mouse.** 32447509
- **[IF=2.22]** Ya Sun. et al. Expression and hormone regulation of UCP2 in goat uterus. *ANIM REPROD SCI.* 2022 Aug;243:107015 **WB,IHC ;Goat.** 35689907