bs-23779R **[Primary Antibody]**

CPT1A Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 1374 **SWISS:** P50416

Target: CPT1A

Immunogen: KLH conjugated synthetic peptide derived from human CPT1A: 351-450/773.

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 mitochondrial oxidation of long-chain fatty acids is nitiated by the sequential action of carnitine palmitoyltransferase I (which is located in the outer membrane and is detergent-labile) and carnitine palmitoyltransferase II (which is located in the inner membrane and is detergent-stable), together with a carnitine-acylcarnitine translocase. CPT I is the key enzyme in the carnitine-dependent transport across the mitochondrial inner membrane and its deficiency results in a decreased rate of fatty acid beta-oxidation. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008].

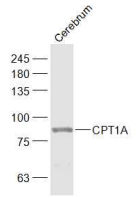
Applications: **WB** (1:500-2000)

Reactivity: Mouse, Rat (predicted: Human, Pig, Cow, Chicken, Dog)

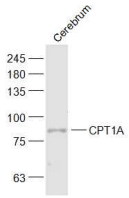
Predicted MW.: 86 kDa

Subcellular Location: Cytoplasm

VALIDATION IMAGES



Sample: Cerebrum (Mouse) Lysate at 40 ug Primary: Anti-CPT1A (bs-23779R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 86 kD Observed band size: 86 kD



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SELECTED CITATIONS

- **[IF=8.886]** Bolin Cai. et al. LncEDCH1 improves mitochondrial function to reduce muscle atrophy by interacting with sarcoplasmic/endoplasmic reticulum calcium ATPase 2. Mol Ther-Nucl Acids. 2021 Dec;: WB ;Chicken. 35024244
- **[IF=8.469]** Cai, Bolin. et al. Long noncoding RNA ZFP36L2-AS functions as a metabolic modulator to regulate muscle development. CELL DEATH DIS. 2022 Apr;13(4):1-12 WB ;Chicken. 35449125
- **[IF=7.7]** Hongtai Li. et al. CircITGB5 regulates the proliferation and adipogenic differentiation of chicken intramuscular preadipocytes through the miR-181b-5p/CPT1A axis. INT J BIOL MACROMOL. 2024 Dec;283:137608 WB ;Chicken. 39577521
- **[IF=7.525]** Ma Manting. et al. LncRNA-TBP mediates TATA-binding protein recruitment to regulate myogenesis and induce slow-twitch myofibers. CELL COMMUN SIGNAL. 2023 Dec;21(1):1-16 WB ;Chicken. 36635672

- **[IF=5.6]** Xuanxu Chen. et al. The Complement Component 4 Binding Protein α Gene: A Versatile Immune Gene That Influences Lipid Metabolism in Bovine Mammary Epithelial Cell Lines. INT J MOL SCI. 2024 Jan;25(4):2375 WB ;Bovine. 38397050