bs-5045R **[Primary Antibody]**

CPT1B Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 1375 **SWISS:** Q92523

Target: CPT1B

Immunogen: KLH conjugated synthetic peptide derived from human CPT1B: 501-600/772.

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, a member of the carnitine/choline acetyltransferase family, is the rate-controlling enzyme of the long-chain fatty acid beta-oxidation pathway in muscle mitochondria. This enzyme is required for the net transport of long-chain fatty acyl-CoAs from the cytoplasm into the mitochondria. Multiple transcript variants encoding different isoforms have been found for this gene, and read-through transcripts are expressed from the upstream locus that include exons from this gene. [provided by RefSeq, Jun 2009].

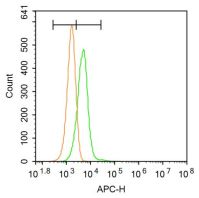
Applications: **Flow-Cyt** (3ug/Test)

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

Predicted MW.: 85 kDa

Subcellular Location: Cytoplasm

VALIDATION IMAGES



Blank control: Hela. Primary Antibody (green line): Rabbit Anti-CPT1B antibody (bs-5045R) Dilution: 3µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody: Goat anti-rabbit IgG-AF647 Dilution: 3µg /test. Protocol The cells were incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at 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=4.91]** Huebbe, Patricia, et al. "Apolipoprotein E (APOE) genotype regulates body weight and fatty acid utilization–studies in gene targeted replacement mice." Molecular Nutrition & Food Research (2014). WB ;="Mouse". 25381750
- **[IF=3.06]** Yuan J et al. L-Carnitine Is Involved in Hyperbaric Oxygen-Mediated Therapeutic Effects in High Fat Diet-Induced Lipid Metabolism Dysfunction. Molecules. 2020 Jan 1;25(1). pii: E176. WB ;Mouse. 31906305