bs-2047R

[Primary Antibody]

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CPT1A Rabbit pAb

- DATASHEET -

Host: Rabbit Isotype: IgG

Clonality: Polyclonal

GenelD: 1374 **SWISS:** P50416

Target: CPT1A

Immunogen: KLH conjugated synthetic peptide derived from human CPT1A:

1-100/773.

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: IHC-P (1:100-500)

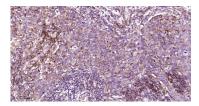
IHC-F (1:100-500) IF (1:100-500)

Reactivity: Human, Mouse, Rat

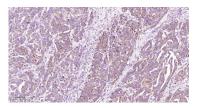
Predicted MW.: 86 kDa

Subcellular Cytoplasm

VALIDATION IMAGES



Paraformaldehyde-fixed, paraffin embedded Human Breast Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with CPT1A Polyclonal Antibody, Unconjugated (bs-2047R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Human Ovarian Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with CPT1A Polyclonal Antibody, Unconjugated (bs-2047R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.

- SELECTED CITATIONS -

- [IF=7.3] Yang Haoqing. et al. Inhibition of miR-615-3p enhances dentinogenesis in scaps via PVT1-mediated mitochondrial regulation. STEM CELL RES THER. 2025 Dec;16(1):1-20 IHC;Rabbit. 40745571
- [IF=6.7] Yan Zhang. et al. Pterosin B improves cognitive dysfunction by promoting microglia M1/M2 polarization through inhibiting Klf5/Parp14 pathway. PHYTOMEDICINE. 2024 Oct;:156152 WB ;Mouse. 39413455
- [IF=7.425] Kaiyang Chen. et al. Oligosaccharide and short-chain fatty acid: A double-edged sword in obese mice by regulating food intake and fat synthesis. FOOD RES INT. 2022 Sep;159:111619 WB; Mouse. 35940810
- [IF=4.55] Fan, Chen-Yu, et al. "Betaine supplementation protects against high fructose-induced renal injury in rats."
 The Journal of Nutritional Biochemistry (2013). WB; Rat. 24456735

gulating lipid metabolism in rats. J ETHNOPHARMACOL. 2023 Dec;317:116838 WB ;Rat. 37355081					