

ARG64046 anti-CPT1A antibody

Package: 100 µg
Store at: -20°C

Summary

| | |
|---------------------|---|
| Product Description | Goat Polyclonal antibody recognizes CPT1A |
| Tested Reactivity | Hu |
| Tested Application | IHC-P, WB |
| Specificity | This antibody is expected to recognize both reported isoforms (NP_001867.2; NP_001027017.1) but is not expected to recognise CPT1B. |
| Host | Goat |
| Clonality | Polyclonal |
| Isotype | IgG |
| Target Name | CPT1A |
| Species | Human |
| Immunogen | C-DPAQTVEQRLKLFK |
| Conjugation | Un-conjugated |
| Alternate Names | L-CPT1; Carnitine O-palmitoyltransferase I, liver isoform; CPT1; Carnitine O-palmitoyltransferase 1, liver isoform; CPT1-L; Carnitine palmitoyltransferase 1A; CPTI-L; EC 2.3.1.21; CPT I |

Application Instructions

| | | |
|-------------------|--|-------------------|
| Application table | Application | Dilution |
| | IHC-P | Assay - dependent |
| | WB | 1 - 3 µg/ml |
| Application Note | WB: Recommend incubate at RT for 1h. IHC-P: Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. | |

Properties

| | |
|---------------------|---|
| Form | Liquid |
| Purification | Purified from goat serum by antigen affinity chromatography. |
| Buffer | Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA. |
| Preservative | 0.02% Sodium azide |
| Stabilizer | 0.5% BSA |
| Concentration | 0.5 mg/ml |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated |

freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links

[GeneID: 1374 Human](#)

[Swiss-port # P50416 Human](#)

Background

The mitochondrial oxidation of long-chain fatty acids is initiated 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]

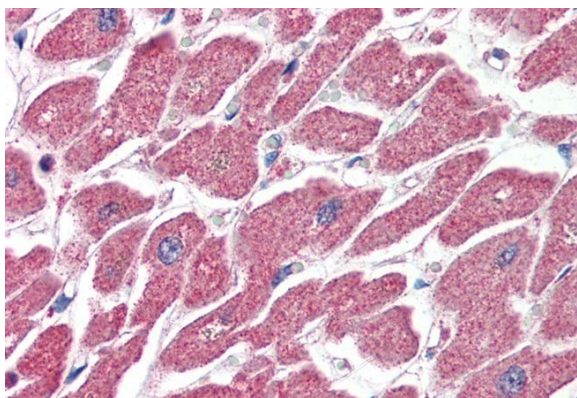
Research Area

Cancer antibody; Cell Biology and Cellular Response antibody; Controls and Markers antibody; Metabolism antibody; Signaling Transduction antibody

Calculated Mw

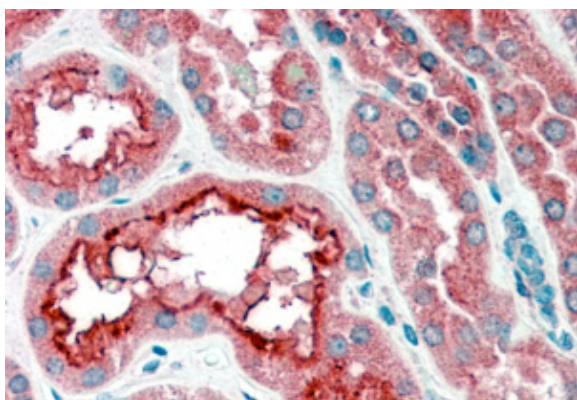
88 kDa

Images



ARG64046 anti-CPT1A antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human heart tissue. Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). The tissue section was stained with ARG64046 anti-CPT1A antibody at 4 µg/ml dilution followed by AP-staining.



ARG64046 anti-CPT1A antibody IHC-P image

Immunohistochemistry: paraffin embedded Human Kidney. (Steamed antigen retrieval with citrate buffer pH 6) stained with ARG64046 anti-CPT1A antibody at 4 µg/ml dilution followed by AP-staining.



ARG64046 anti-CPT1A antibody WB image

Western blot: 35 µg of MCF7 cell lysate (in RIPA buffer) stained with ARG64046 anti-CPT1A antibody at 2 µg/ml dilution and incubated at RT for 1 hour.