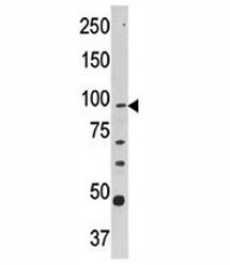
CPT1A Antibody / CPT1-L (F48084)

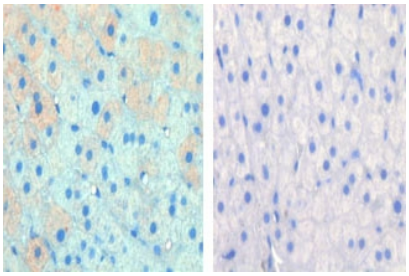
Catalog No.	Formulation	Size
F48084-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F48084-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Bovine
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Purified
UniProt	P50416
Applications	Western blot: 1:1000 IHC (Paraffin): 1:50-1:100
Limitations	This CPT1A antibody is available for research use only.



Western blot analysis of CPT1A antibody and Y79 lysate. Predicted molecular weight ~86kDa.



IHC data of FFPE cow lactation tissue tested with CPT1A antibody (left) and without primary Ab (right). This data was kindly offered by Hideaki Hayashi, University of Bern, Switzerland.

Description

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.

Application Notes

Titration of the CPT1A antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 606-636 from the human protein was used as the immunogen for this CPT1A antibody.

Storage

Aliquot the CPT1A antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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