

LIPT1 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP57026

Specification

LIPT1 Polyclonal Antibody - Product Information

Application IHC-P, IHC-F, IF, ICC

Primary Accession Q9Y234

Reactivity
Host
Clonality
Calculated MW
Physical State

Rat, Dog, Bovine
Rabbit
Polyclonal
41 KDa
Liquid

Immunogen KLH conjugated synthetic peptide derived

laG

from human LIPT1

Epitope Specificity 101-200/373

Isotype Purity

affinity purified by Protein A

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02%

Proclin300 and 50% Glycerol.

SUBCELLULAR LOCATION Mitochondrion.

SIMILARITY Belongs to the IpIA family.

Important Note

This product as supplied is intended for research use only, not for use in human,

therapeutic or diagnostic applications.

Background Descriptions

The process of transferring lipoic acid to proteins is a two-step process. The first step is the activation of lipoic acid by lipoate-activating enzyme to form lipoyl-AMP. For the second step, the protein encoded by this gene transfers the lipoyl moiety to apoproteins. Alternative splicing results in multiple transcript variants. A related pseudogene has been identified on chromosome 13. Read-through transcription also exists between this gene and the neighboring downstream mitochondrial ribosomal protein L30 (MRPL30) gene. [provided by RefSeq, Mar 2011]

LIPT1 Polyclonal Antibody - Additional Information

Gene ID 51601

Other Names

Lipoyltransferase 1, mitochondrial, 2.3.1.-, Lipoate biosynthesis protein, Lipoate-protein ligase, Lipoyl ligase, LIPT1

Target/Specificity

Highly expressed in skeletal muscle and heart, moderately in kidney and pancreas, and detected at lower levels in liver, brain, placenta and lung.

Dilution

IHC-P~~N/A<br \><span class</pre>



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="dilution IHC-F">IHC-F~~N/A<br \>IF~~1:50~200
or \>ICC~~N/A

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

LIPT1 Polyclonal Antibody - Protein Information

Name LIPT1 (HGNC:29569)

Function

Lipoyl amidotransferase that catalyzes the transfer of lipoyl moieties from lipoyl-protein H of the glycine cleavage system (lipoyl- GCSH) to E2 subunits of the pyruvate dehydrogenase complex (PDCE2) (PubMed:29987032). Unable to catalyze the transfer of octanoyl from octanoyl-GCSH to PDCE2 (PubMed: 29987032). In vitro, it is also able to catalyze the transfer of the lipoyl group from lipoyl-AMP to the specific lysine residue of lipoyl domains of lipoate-dependent enzymes but this reaction may not be physiologically relevant (Probable).

Cellular Location

Mitochondrion {ECO:0000250|UniProtKB:O46419}.

Tissue Location

Highly expressed in skeletal muscle and heart, moderately in kidney and pancreas, and detected at lower levels in liver, brain, placenta and lung.

LIPT1 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

LIPT1 Polyclonal Antibody - Images