

# LIPT1 antibody - N-terminal region

Rabbit Polyclonal Antibody

Catalog # AI12942

## Product Information

|                   |                                                           |
|-------------------|-----------------------------------------------------------|
| Application       | WB                                                        |
| Primary Accession | <a href="#">Q9Y234</a>                                    |
| Other Accession   | <a href="#">NM_015929</a> , <a href="#">NP_057013</a>     |
| Reactivity        | Human, Mouse, Rat, Rabbit, Dog, Guinea Pig, Horse, Bovine |
| Predicted         | Human, Mouse, Rat, Rabbit, Chicken, Dog, Horse            |
| Host              | Rabbit                                                    |
| Clonality         | Polyclonal                                                |
| Calculated MW     | 42479                                                     |

## Additional Information

|                          |                                                                                                                                                                                                |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gene ID                  | 51601                                                                                                                                                                                          |
| Alias Symbol             | MGC12290, MGC13378                                                                                                                                                                             |
| Other Names              | Lipoyltransferase 1, mitochondrial, 2.3.1.-, Lipoate biosynthesis protein, Lipoate-protein ligase, Lipoyl ligase, LIPT1                                                                        |
| Format                   | Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.                                                                                              |
| Reconstitution & Storage | Add 50 ul of distilled water. Final anti-LIPT1 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles. |
| Precautions              | LIPT1 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.                                                                           |

## Protein Information

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| Name              | LIPT1 ( <a href="#">HGNC:29569</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 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: <a href="#">29987032</a> ). Unable to catalyze the transfer of octanoyl from octanoyl-GCSH to PDCE2 (PubMed: <a href="#">29987032</a> ). 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.

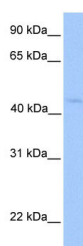
**References**

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Fujiwara, K., (1999) Eur. J. Biochem. 260(3), 761-767 Reconstitution and Storage: For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Images**

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WB Suggested Anti-LIPT1 Antibody Titration: 0.2-1 µg/ml  
Positive Control: Hela cell lysate

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.