

CLYBL Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP10440a**Specification**

CLYBL Antibody (N-term) Blocking peptide - Product Information

Primary Accession [O8N0X4](#)
Other Accession [NP_996531.1](#)

CLYBL Antibody (N-term) Blocking peptide - Additional Information

Gene ID 171425

Other Names

Citrate lyase subunit beta-like protein, mitochondrial, Citrate lyase beta-like, 41--, CLYBL, CLB

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

CLYBL Antibody (N-term) Blocking peptide - Protein Information

Name CLYBL ([HGNC:18355](#))

Synonyms CLB

Function

Mitochondrial citramalyl-CoA lyase indirectly involved in the vitamin B12 metabolism (PubMed: [29056341](http://www.uniprot.org/citations/29056341)). Converts citramalyl-CoA into acetyl-CoA and pyruvate in the C5-dicarboxylate catabolism pathway (PubMed: [29056341](http://www.uniprot.org/citations/29056341)). The C5-dicarboxylate catabolism pathway is required to detoxify itaconate, a vitamin B12-poisoning metabolite (PubMed: [29056341](http://www.uniprot.org/citations/29056341)). Also acts as a malate synthase in vitro, converting glyoxylate and acetyl-CoA to malate (PubMed: [29056341](http://www.uniprot.org/citations/29056341), PubMed: [24334609](http://www.uniprot.org/citations/24334609)). Also displays malyl-CoA thioesterase activity (PubMed: [29056341](http://www.uniprot.org/citations/29056341)). Also acts as a beta-methylmalate synthase in vitro, by mediating conversion of glyoxylate and propionyl-CoA to beta-methylmalate (PubMed: [24334609](http://www.uniprot.org/citations/24334609), PubMed: [29056341](http://www.uniprot.org/citations/29056341)). Also has very weak citramalate synthase activity in vitro

(PubMed:24334609,
PubMed:29056341).

Cellular Location

Mitochondrion {ECO:0000250|UniProtKB:Q8R4N0}.

CLYBL Antibody (N-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

CLYBL Antibody (N-term) Blocking peptide - Images**CLYBL Antibody (N-term) Blocking peptide - References**

Lasky-Su, J., et al. Am. J. Med. Genet. B Neuropsychiatr. Genet. 147B (8), 1345-1354 (2008)
:Morikawa, J., et al. Biochem. Biophys. Res. Commun. 289(5):1282-1286(2001)