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DLP1 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP4817b

Specification

DLP1 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession Q86YH6

DLP1 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 57107

Other Names
Decaprenyl-diphosphate synthase subunit 2, All-trans-decaprenyl-diphosphate synthase subunit 2, Candidate tumor suppressor protein, Decaprenyl pyrophosphate synthase subunit 2, PDSS2, C6orf210, DLP1

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.

DLP1 Antibody (C-term) Blocking Peptide - Protein Information

Name PDSS2 (HGNC:23041)

Synonyms C6orf210, DLP1

Function
Heterotetrameric enzyme that catalyzes the condensation of farnesyl diphosphate (FPP), which acts as a primer, and isopentenyl diphosphate (IPP) to produce prenyl diphosphates of varying chain lengths and participates in the determination of the side chain of ubiquinone (PubMed:16262699). Supplies nona and decaprenyl diphosphate, the precursors for the side chain of the isoprenoid quinones ubiquinone-9 (Q9) and ubiquinone-10 (Q10) respectively (PubMed:16262699). The enzyme adds isopentenyl diphosphate molecules sequentially to farnesyl diphosphate with trans stereochemistry (PubMed:16262699). May play a role during cerebellar development (By similarity). May regulate mitochondrial respiratory chain function (By similarity).

Cellular Location
Mitochondrion.

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DLP1 Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

DLP1 Antibody (C-term) Blocking Peptide - Images

DLP1 Antibody (C-term) Blocking Peptide - Background

DLP1 is an enzyme that synthesizes the prenyl side-chain of coenzyme Q, or ubiquinone, one of the key elements in the respiratory chain. The gene product catalyzes the formation of all trans-polyprenyl pyrophosphates from isopentyl diphosphate in the assembly of polyisoprenoid side chains, the first step in coenzyme Q biosynthesis. Defects in this gene are a cause of coenzyme Q10 deficiency.

DLP1 Antibody (C-term) Blocking Peptide - References

Chen, P., et al. Anticancer Drugs 20(2):141-148(2009)Vieira, A.R., et al. Genet. Med. 10(9):668-674(2008)Diomedi-Camassei, F., et al. J. Am. Soc. Nephrol. 18(10):2773-2780(2007)