

**DCT Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP8771a****Specification**

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**DCT Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [P40126](#)**DCT Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 1638**Other Names**

L-dopachrome tautomerase, DCT, DT, L-dopachrome Delta-isomerase, Tyrosinase-related protein 2, TRP-2, TRP2, DCT, TYRP2

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP8771a](/products/AP8771a) was selected from the N-term region of human DCT. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**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.

**DCT Antibody (N-term) Blocking Peptide - Protein Information****Name** DCT ([HGNC:2709](#))**Synonyms** TYRP2**Function**

Plays a role in melanin biosynthesis (PubMed:[33100333](http://www.uniprot.org/citations/33100333)). Catalyzes the conversion of L-dopachrome into 5,6-dihydroxyindole-2- carboxylic acid (DHICA).

**Cellular Location**

Melanosome membrane; Single-pass type I membrane protein. Melanosome {ECO:0000250|UniProtKB:P29812}. Note=Proper trafficking to melanosome is regulated by SGSM2, ANKRD27, RAB9A, RAB32 and RAB38 {ECO:0000250|UniProtKB:P29812}

**DCT Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**DCT Antibody (N-term) Blocking Peptide - Images****DCT Antibody (N-term) Blocking Peptide - Background**

DCT is involved in regulating eumelanin and phaeomelanin levels.

**DCT Antibody (N-term) Blocking Peptide - References**

Nishihira,J., et.al., Biochem. Biophys. Res. Commun. 243 (2), 538-544 (1998)