

**DPH2 Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP18264a****Specification**

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**DPH2 Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [Q9BOC3](#)**DPH2 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 1802**Other Names**

Diphthamide biosynthesis protein 2, DPH2 homolog, HsDph2, Diphthamide biosynthesis protein 2 homolog-like 2, DPH2-like 2, DPH2, DPH2L2

**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.

**DPH2 Antibody (N-term) Blocking Peptide - Protein Information****Name** DPH2**Synonyms** DPH2L2**Function**

Required for the first step of diphthamide biosynthesis, a post-translational modification of histidine which occurs in elongation factor 2 (PubMed:<a href="http://www.uniprot.org/citations/32576952" target="\_blank">32576952</a>). DPH1 and DPH2 transfer a 3-amino-3- carboxypropyl (ACP) group from S-adenosyl-L-methionine (SAM) to a histidine residue, the reaction is assisted by a reduction system comprising DPH3 and a NADH-dependent reductase (By similarity). Facilitates the reduction of the catalytic iron-sulfur cluster found in the DPH1 subunit (By similarity).

**Tissue Location**

Strongly expressed in skeletal muscle. Moderately expressed in heart, small intestine, liver, pancreas, testis and colon Weakly expressed in brain, placenta, kidney, spleen, thymus, prostate, ovary and lymphocytes.

## **DPH2 Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

## **DPH2 Antibody (N-term) Blocking Peptide - Images**

## **DPH2 Antibody (N-term) Blocking Peptide - Background**

This gene is one of two human genes similar to the yeast gene dph2. The yeast gene was identified by its ability to complement a diphthamide mutant strain, and thus probably functions in diphthamide biosynthesis. Diphthamide is a post-translationally modified histidine residue present in elongation factor 2 (EF2) that is the target of diphtheria toxin ADP-ribosylation. Two transcript variants encoding different isoforms have been found for this gene.

## **DPH2 Antibody (N-term) Blocking Peptide - References**

Rose, J. Phd, et al. Mol. Med. (2010) In press :Liu, S., et al. Mol. Cell. Biol. 24(21):9487-9497(2004)Schultz, D.C., et al. Genomics 52(2):186-191(1998)Foley, B.T., et al. J. Biol. Chem. 270(39):23218-23225(1995)Mattheakis, L.C., et al. Gene 132(1):149-154(1993)