

**PHYH2 Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP8711b****Specification**

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**PHYH2 Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [Q9UJ83](#)**PHYH2 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 26061**Other Names**

2-hydroxyacyl-CoA lyase 1, 41--, 2-hydroxyphytanoyl-CoA lyase, 2-HPCL, Phytanoyl-CoA 2-hydroxylase 2, HACL1, HPCL, HPCL2, PHYH2

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP8711b](/products/AP8711b) was selected from the C-term region of human PHYH2. 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.

**PHYH2 Antibody (C-term) Blocking Peptide - Protein Information****Name** HACL1 ([HGNC:17856](#))**Synonyms** HPCL, HPCL2, PHYH2**Function**

Peroxisomal 2-OH acyl-CoA lyase involved in the cleavage (C1 removal) reaction in the fatty acid alpha-oxydation in a thiamine pyrophosphate (TPP)-dependent manner (PubMed: [28289220](http://www.uniprot.org/citations/28289220), PubMed: [21708296](http://www.uniprot.org/citations/21708296), PubMed: [10468558](http://www.uniprot.org/citations/10468558)). Involved in the degradation of 3-methyl-branched fatty acids like phytanic acid and the shortening of 2-hydroxy long- chain fatty acids (PubMed: [28289220](http://www.uniprot.org/citations/28289220), PubMed: [21708296](http://www.uniprot.org/citations/21708296), PubMed: [10468558](http://www.uniprot.org/citations/10468558))

target="\_blank">10468558</a>). Plays a significant role in the biosynthesis of heptadecanal in the liver (By similarity).

**Cellular Location**

Peroxisome

**Tissue Location**

Widely expressed.

**PHYH2 Antibody (C-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**PHYH2 Antibody (C-term) Blocking Peptide - Images****PHYH2 Antibody (C-term) Blocking Peptide - Background**

PHYH2 catalyzes a carbon-carbon cleavage reaction; cleaves a 2-hydroxy-3-methylacyl-CoA into formyl-CoA and a 2-methyl-branched fatty aldehyde.

**PHYH2 Antibody (C-term) Blocking Peptide - References**

Kikuchi,M., et.al., J. Biol. Chem. 279 (1), 421-428 (2004)