

**PHYH Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP8711a****Specification**

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**PHYH Antibody (N-term) Blocking Peptide - Product Information**

Primary Accession [O14832](#)  
Other Accession [O9UJ83](#)

**PHYH Antibody (N-term) Blocking Peptide - Additional Information**

**Gene ID** 5264

**Other Names**

Phytanoyl-CoA dioxygenase, peroxisomal, Phytanic acid oxidase, Phytanoyl-CoA  
alpha-hydroxylase, PhyH, PHYH, PAHX

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP8711a](/products/AP8711a) was selected from the N-term region of human PHYH. 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.

**PHYH Antibody (N-term) Blocking Peptide - Protein Information**

**Name** PHYH

**Synonyms** PAHX

**Function**

Catalyzes the 2-hydroxylation of not only racemic phytanoyl- CoA and the isomers of 3-methylhexadecanoyl-CoA, but also a variety of other mono-branched 3-methylacyl-CoA esters (with a chain length of at least seven carbon atoms) and straight-chain acyl-CoA esters (with a chain length longer than four carbon atoms) (PubMed:[10744784](http://www.uniprot.org/citations/10744784), PubMed:[12031666](http://www.uniprot.org/citations/12031666), PubMed:[12923223](http://www.uniprot.org/citations/12923223), PubMed:[9326939](http://www.uniprot.org/citations/9326939)). Does not

hydroxylate long and very long straight chain acyl-CoAs or 2-methyl- and 4-methyl- branched acyl-CoAs (PubMed:<a href="http://www.uniprot.org/citations/10744784" target="\_blank">10744784</a>, PubMed:<a href="http://www.uniprot.org/citations/12923223" target="\_blank">12923223</a>).

**Cellular Location**

Peroxisome.

**Tissue Location**

Expressed in liver, kidney, and T-cells, but not in spleen, brain, heart, lung and skeletal muscle

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

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

- [Blocking Peptides](#)

**PHYH Antibody (N-term) Blocking Peptide - Images****PHYH Antibody (N-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.

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

Foulon,V., et.al., J. Biol. Chem. 280 (11), 9802-9812 (2005)Kikuchi,M., et.al., J. Biol. Chem. 279 (1), 421-428 (2004)