

**PHYH2 Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP8711b**

**Specification**

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**PHYH2 Antibody (C-term) - Product Information**

Application	IHC-P, WB,E
Primary Accession	<a href="#">O9UJ83</a>
Other Accession	<a href="#">O9QXE0</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	63729
Antigen Region	550-578

**PHYH2 Antibody (C-term) - 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**

This PHYH2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 550-578 amino acids from the C-terminal region of human PHYH2.

**Dilution**

IHC-P~~1:50~100

WB~~1:1000

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

PHYH2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**PHYH2 Antibody (C-term) - 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:[10468558](#), PubMed:[21708296](#), PubMed:[28289220](#)). Involved in the degradation of 3-methyl-branched fatty acids like phytanic acid and the shortening of 2-hydroxy long- chain fatty acids (PubMed:[10468558](#), PubMed:[21708296](#), PubMed:[28289220](#)). Plays a significant role in the biosynthesis of heptadecanal in the liver (By similarity).

**Cellular Location**

Peroxisome

**Tissue Location**

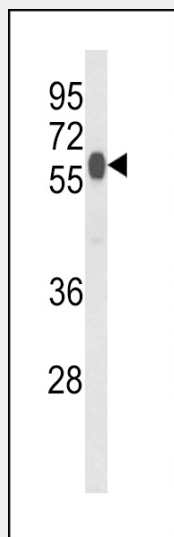
Widely expressed.

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

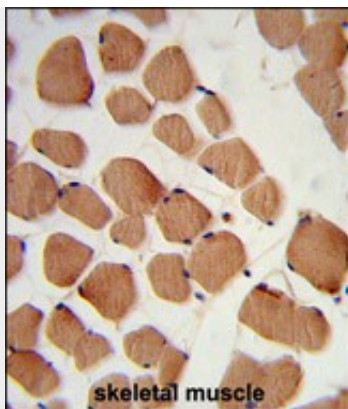
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**PHYH2 Antibody (C-term) - Images**



Western blot analysis of PHYH2 Antibody (C-term) (Cat. #AP8711b) in mouse liver tissue lysates (35ug/lane). PHYH2 (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human skeletal muscle reacted with PHYH2 Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

#### **PHYH2 Antibody (C-term) - 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) - References**

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