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PHYH Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8711a

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	O14832
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB22594
Calculated MW	38538
Antigen Region	59-87

Additional Information

Gene ID	5264
Other Names	Phytanoyl-CoA dioxygenase, peroxisomal, Phytanic acid oxidase, Phytanoyl-CoA alpha-hydroxylase, PhyH, PHYH, PAHX
Target/Specificity	This PHYH antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 59-87 amino acids from the N-terminal region of human PHYH.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 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	PHYH Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

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, PubMed:12031666, PubMed:12923223, PubMed:9326939). Does not hydroxylate long and very long straight chain acyl-CoAs or 2-methyl- and 4-methyl- branched acyl-CoAs (PubMed:10744784, PubMed:12923223).

Cellular Location Peroxisome.

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

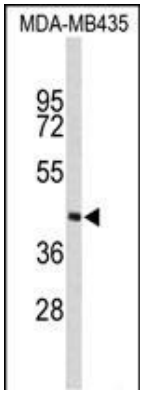
Background

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

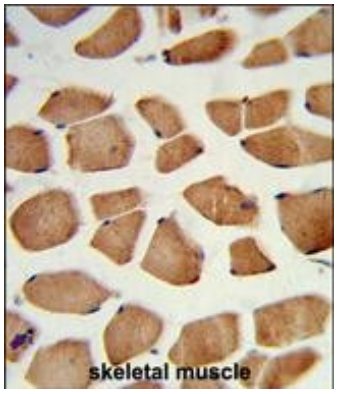
References

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

Images

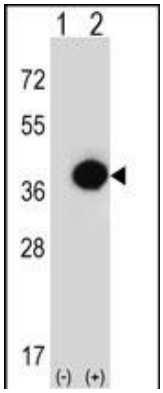


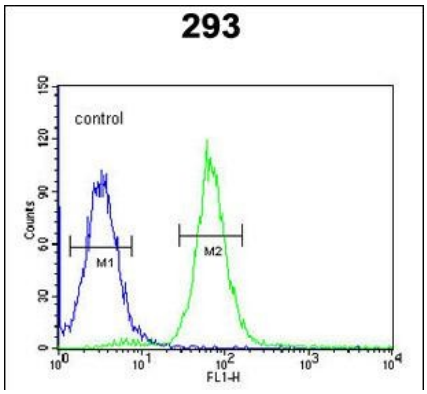
Western blot analysis of PHYH Antibody (N-term) (Cat. #AP8711a) in MDA-MB435 cell line lysates (35ug/lane). PHYH (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human skeletal muscle reacted with PHYH Antibody (N-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.

Western blot analysis of PHYH (arrow) using rabbit polyclonal PHYH Antibody (N-term) (Cat. #AP8711a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the PHYH gene.





PHYH Antibody (N-term) (Cat. #AP8711a) flow cytometric analysis of 293 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.