

For Research Use Only

# PHYH Polyclonal antibody

Catalog Number: 12858-1-AP **5 Publications**



## Basic Information

<b>Catalog Number:</b> 12858-1-AP	<b>GenBank Accession Number:</b> BC029512	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 500 µg/ml by Nanodrop and 467 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 5264	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:20-1:200
<b>Source:</b> Rabbit	<b>Full Name:</b> phytanoyl-CoA 2-hydroxylase	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 39 kDa	
<b>Immunogen Catalog Number:</b> AG3569	<b>Observed MW:</b> 36 kDa, 70 kDa	

## Applications

<b>Tested Applications:</b> IHC, WB, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> IHC, WB	WB : human liver tissue, HEK-293 cells, human kidney tissue, Jurkat cells
<b>Species Specificity:</b> human, mouse, rat	IHC : human kidney tissue,
<b>Cited Species:</b> rat, mouse, pig	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

PHYH (Phytanoyl-CoA 2-hydroxylase), also known as Phytanic acid oxidase or Phytanoyl-CoA alpha-hydroxylase, is a peroxisomal enzyme which converts phytanoyl-CoA to 2-hydroxyphytanoyl-CoA. It catalyzes the first step in the alpha-oxidation of phytanic acid, a branched-chain fatty acid. Mutations in this gene can cause Refsum disease (RD) and deficient protein activity can cause Zellweger syndrome and rhizomelic chondrodysplasia punctata. This antibody (12858-1-AP) detects two bands: 36kd and 70kd. The 70kd band may probably be the dimeric form of PHYH.

## Notable Publications

Author	Pubmed ID	Journal	Application
Hao-Long Zeng	29254222	Oncotarget	WB
Xiaorui Yao	29031784	J Ethnopharmacol	WB
Haodong Chen	34059707	Sci Rep	WB

## Storage

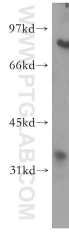
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

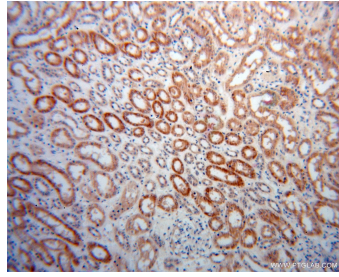
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

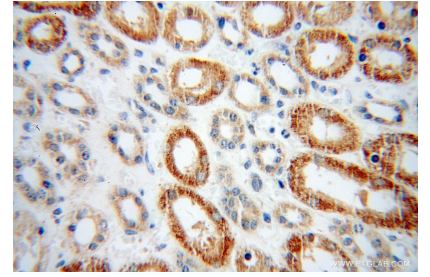
## Selected Validation Data



human liver tissue were subjected to SDS PAGE followed by western blot with 12858-1-AP (PHYH antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human kidney using 12858-1-AP (PHYH antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human kidney using 12858-1-AP (PHYH antibody) at dilution of 1:50 (under 40x lens).