

## PHYH Polyclonal antibody

Catalog Number: 12858-1-AP

5 Publications

## Basic Information

## Catalog Number:

12858-1-AP

## Size:

500 µg/ml

## Source:

Rabbit

## Isotype:

IgG

## Immunogen Catalog Number:

AG3569

## GenBank Accession Number:

BC029512

## GeneID (NCBI):

5264

## UNIPROT ID:

O14832

## Full Name:

phytanoyl-CoA 2-hydroxylase

## Calculated MW:

39 kDa

## Observed MW:

36 kDa, 70 kDa

## Purification Method:

Antigen affinity purification

## Recommended Dilutions:

WB 1:500-1:2000

IHC 1:20-1:200

## Applications

## Tested Applications:

IHC, WB, ELISA

## Cited Applications:

WB, IHC

## Species Specificity:

human, mouse, rat

## Cited Species:

rat, mouse, pig

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Positive Controls:

**WB** : human liver tissue, HEK-293 cells, human kidney tissue, Jurkat cells

**IHC** : human kidney tissue,

## 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

For technical support and original validation data for this product please contact:

T: 4006900926

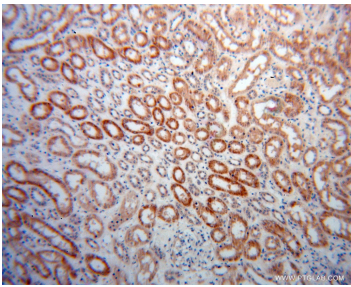
E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)W: [ptgcn.com](http://ptgcn.com)

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

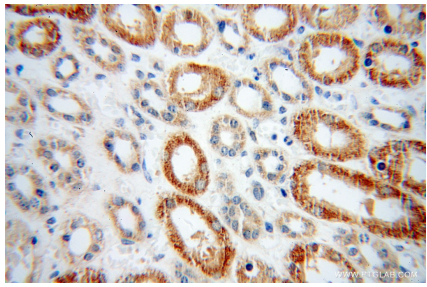
Selected Validation Data



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).