

PHYH Polyclonal Antibody

Catalog number: 12858-1-AP

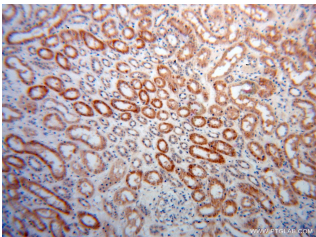
Size: 70 µg/150 µl

Source: Rabbit

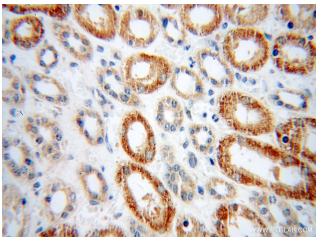
Isotype: IgG

Synonyms:

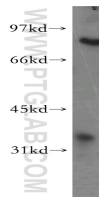
PHYH; LN1, LNAP1, PAHX,
PHYH, PHYH1, Phytanic acid
oxidase, phytanoyl CoA 2
hydroxylase, RD



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



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



human liver tissue were subjected to SDS PAGE followed by western blot with 12858-1-AP (PHYH antibody) at dilution of 1:500

Background

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.

Applications

Tested applications:	ELISA, WB, IHC
Cited applications:	WB
Species specificity:	Human, Mouse, Rat; other species not tested.
Cited species:	Mouse
Calculated PHYH MW:	39 kDa
Observed PHYH MW:	36 kDa, 70 kDa
Positive WB detected in	Human liver tissue, HEK-293 cells, human kidney tissue, Jurkat cells
Positive IHC detected in	Human kidney tissue
Recommended dilution:	WB: 1:500-1:5000 IHC: 1:20-1:200

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag3569
GenBank accession number:	BC029512
Gene ID (NCBI):	5264
Full name:	Phytanoyl-CoA 2-hydroxylase

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.