

Rabbit PHYHD1 Polyclonal Antibody | anti-PHYHD1 antibody

Anti-PHYHD1 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127776	Rabbit	Human, Mouse, Rat	ELISA, Western Blot

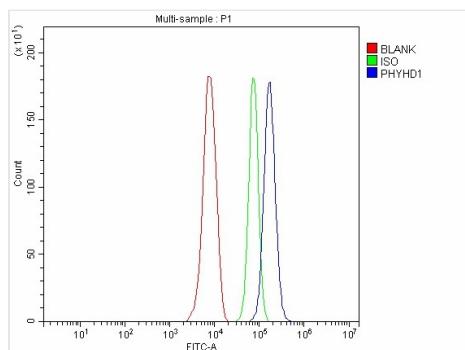
PRODUCT SYNONYMS

PHYHD1; Polyclonal Antibody; Anti-PHYHD1 Antibody Picoband; anti-PHYHD1 antibody

PRODUCT SPECIFICATIONS

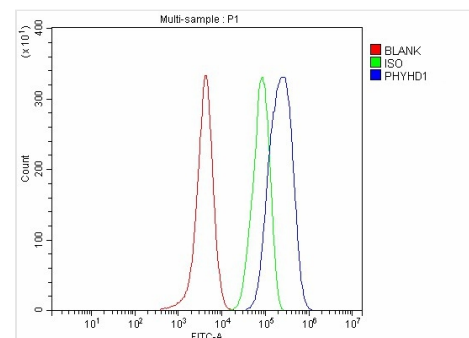
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-PHYHD1 antibody	ELISA, WB (Western Blot)
Immunogen	E coli-derived human PHYHD1 recombinant protein (Position: M1-Q250). Human PHYHD1 shares 87.2% and 88% amino acid (aa) sequence identity with mouse and rat PHYHD1, respectively.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.

IMAGES



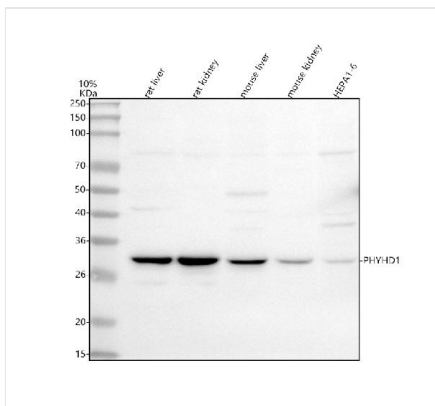
FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of HepG2 cells using anti-PHYHD1 antibody (AAA127776). Overlay histogram showing HepG2 cells stained with AAA127776 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-PHYHD1 Antibody (AAA127776, 1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of Hela cells using anti-PHYHD1 antibody (AAA127776). Overlay histogram showing Hela cells stained with AAA127776 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-PHYHD1 Antibody (AAA127776, 1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



WB (Western Blot)

Figure 1. Western blot analysis of PHYHD1 using anti-PHYHD1 antibody (AAA127776). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: rat liver tissue lysates, Lane 2: rat kidney tissue lysates, Lane 3: mouse liver tissue lysates, Lane 4: mouse kidney tissue lysates, Lane 5: mouse Hepa1-6 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-PHYHD1 antigen affinity purified polyclonal antibody (#AAA127776) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for PHYHD1 at approximately 32 kDa. The expected band size for PHYHD1 is at 32 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-PHYHD1 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-PHYHD1 antibody	Primary Antibodies
References	1. Furusawa, Y., Kubo, T., Fukazawa, T. Phyhd1, an XPhyH-like homologue, is induced in mouse T cells upon T cell stimulation. <i>Biochem. Biophys. Res. Commun.</i> 472: 551-556, 2016. 2. Gross, M. B. Personal Communication. Baltimore, Md. 9/16/2022.3. Zhang, Z., Kochan, G. T., Ng, S. S., Kavanagh, K. L., Oppermann, U., Schofield, C. J., McDonough, M. A. Crystal structure of PHYHD1A, a 2OG oxygenase related to phytanoyl-CoA hydroxylase. <i>Biochem. Biophys. Res. Commun.</i> 408: 553-558, 2011.

NCBI AND UNIPROT INFORMATION

NCBI GI #	154937350
NCBI GeneID	254295
NCBI Accession #	NP_001094346.1
NCBI GenBank Nucleotide #	NM_001100876.1
UniProt Accession #	Q5SRE7 ; Q5SRE9 ; Q5SRF0 ; Q7Z623 ; Q7Z7P9 ; Q96GM4 ; A6PWN9 ; A6PWP0 ; B3KT57 ; B4E3X8
Molecular Weight	32,668 Da
NCBI Official Full Name	phytanoyl-CoA dioxygenase domain-containing protein 1 isoform a
NCBI Official Synonym Full Names	phytanoyl-CoA dioxygenase domain containing 1
NCBI Official Symbol	PHYHD1
NCBI Protein Information	phytanoyl-CoA dioxygenase domain-containing protein 1

UniProt Protein Name	Phytanoyl-CoA dioxygenase domain-containing protein 1
UniProt Gene Name	PHYHD1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/phyhd1-antibody-western-blot-elisa/127776>