

## Anti-PHYHIPL Antibody Picoband®

Catalog Number: A14122-1

### About PHYHIPL

Phytanoyl-CoA hydroxylase-interacting protein-like is an enzyme that in humans is encoded by the PHYHIPL gene. PHYHIPL (phytanoyl-CoA 2-hydroxylase interacting protein-like), also known as phytanoyl-CoA hydroxylase-interacting protein-like, is a 376 amino acid protein that contains one fibronectin type-III domain and belongs to the PHYHIP family. Conserved in chimpanzee, canine, mouse, rat, chicken, zebrafish and *Caenorhabditis elegans*, PHYHIPL exists as three alternatively spliced isoforms. PHYHIPL is a down-regulated target of IRX1, a homeobox tumor suppressor gene linked to gastric carcinoma. PHYHIPL may also play a role in the development of the central system. The gene that encodes PHYHIPL maps to human chromosome 10q21.1.

### Overview

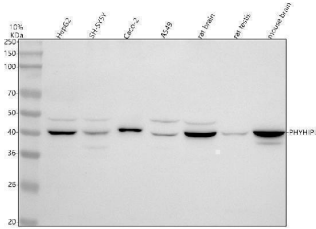
Product Name	Anti-PHYHIPL Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-PHYHIPL Antibody Picoband® catalog # A14122-1. Tested in WB, FCM, ELISA applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees 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.
Application	ELISA, Flow Cytometry, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .
Storage Instructions	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	Q96FC7

### Technical Details

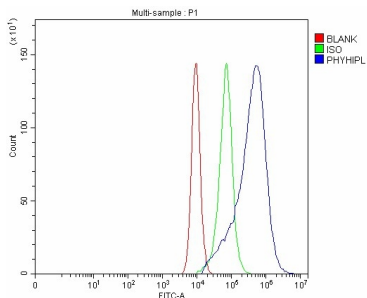
Immunogen	E.coli-derived human PHYHIPL recombinant protein (Position: M1-D336). Human PHYHIPL shares 97.3% and 96.7% amino acid (aa) sequence identity with mouse and rat PHYHIPL, respectively.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.

Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5 ug/ml, Human, Mouse, Rat ELISA, 0.1-0.5 ug/ml, -

## Anti-PHYHIPL Antibody Picoband® (A14122-1) Images



Western blot analysis of PHYHIPL using anti-PHYHIPL antibody (A14122-1). 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: human HepG2 whole cell lysates, Lane 2: human SH-SY5Y whole cell lysates, Lane 3: human Caco-2 whole cell lysates, Lane 4: human A549 whole cell lysates, Lane 5: rat brain tissue lysates, Lane 6: rat testis tissue lysates, Lane 7: mouse brain tissue 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-PHYHIPL antigen affinity purified polyclonal antibody (Catalog # A14122-1) at 0.5 ug/mL overnight at 4°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 (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for PHYHIPL at approximately 40 kDa. The expected band size for PHYHIPL is at 42,40,6 kDa.



Flow Cytometry analysis of CACO-2 cells using anti-PHYHIPL antibody (A14122-1). Overlay histogram showing CACO-2 cells stained with A14122-1 (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-PHYHIPL Antibody (A14122-1, 1 ug/1x10<sup>6</sup> cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x10<sup>6</sup> cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10<sup>6</sup>) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

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Anti-PHYHIPL Antibody

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