

## Anti-LYPLA3/PLA2G15 Antibody Picoband™

Catalog Number: A08649

### About PLA2G15

LYPLA3, also known as Group XV phospholipase A2, is an enzyme that in humans is encoded by the PLA2G15 gene. Lysophospholipases are enzymes that act on biological membranes to regulate the multifunctional lysophospholipids. The protein encoded by this gene hydrolyzes lysophosphatidylcholine to glycerophosphorylcholine and a free fatty acid. This enzyme is present in the plasma and thought to be associated with high-density lipoprotein. A later paper contradicts the function of this gene. It demonstrates that this gene encodes a lysosomal enzyme instead of a lysophospholipase and has both calcium-independent phospholipase A2 and transacylase activities.

### Overview

Product Name	Anti-LYPLA3/PLA2G15 Antibody Picoband™
Reactive Species	Human
Description	Boster Bio Anti-LYPLA3/PLA2G15 Antibody Picoband™ catalog # A08649. Tested in ELISA, , IF, ICC, WB applications. This antibody reacts with Human.
Application	ELISA, IF, ICC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
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	Q8NCC3

### Technical Details

Immunogen	E.coli-derived human LYPLA3/PLA2G15 recombinant protein (Position: D92-Q372).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for ICC.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 µg/ml.
Purification	Immunogen affinity purified.

**Suggested Dilutions**

Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.

If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.

Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:

Western blot, 0.25-0.5 µg/ml, Human

Immunocytochemistry/Immunofluorescence, 5 µg/ml, Human

Direct ELISA, 0.1-0.5 µg/ml, Human

## Anti-LYPLA3/PLA2G15 Antibody Picoband™ (A08649) Images

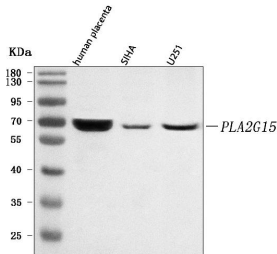


Figure 1. Western blot analysis of LYPLA3/PLA2G15 using anti-LYPLA3/PLA2G15 antibody (A08649). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human placenta tissue lysates,  
Lane 2: human SIHA whole cell lysates,  
Lane 3: human U251 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-LYPLA3/PLA2G15 antigen affinity purified polyclonal antibody (Catalog # A08649) 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 LYPLA3/PLA2G15 at approximately 42-57 kDa. The expected band size for LYPLA3/PLA2G15 is at 65-70 kDa.

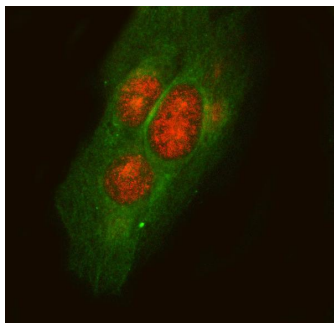


Figure 2. IF analysis of LYPLA3/PLA2G15 using anti-LYPLA3/PLA2G15 antibody (A08649) and anti-Tubulin Alpha antibody (M03989-3).

LYPLA3/PLA2G15 was detected in immunocytochemical section of U2OS cell. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-LYPLA3/PLA2G15 Antibody (A08649) and mouse anti-Tubulin Alpha antibody (M03989-3) overnight at 4°C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) and DyLight®488 Conjugated Goat Anti-Mouse IgG (BA1126) were used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37°C. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

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