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antibody and ELISA experts

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Anti-ABHD4 Antibody Picoband™

Catalog Number: A14435-1

About ABHD4

Predicted to enable lysophosphatidic acid acyltransferase activity and lysophospholipase activity. Predicted to be involved in N-acylphosphatidylethanolamine metabolic process; lipid homeostasis; and phosphatidic acid biosynthetic process. Predicted to act upstream of or within N-acylethanolamine metabolic process. Predicted to be located in endoplasmic reticulum membrane. Predicted to be active in lipid droplet and mitochondrion.

Overview

Product Name	Anti-ABHD4 Antibody Picoband™
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-ABHD4 Antibody Picoband™ catalog # A14435-1. Tested in ELISA, Flow Cytometry, WB applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, Flow Cytometry, 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	Q8TB40

Technical Details

Immunogen	E.coli-derived human ABHD4 recombinant protein (Position: Q27-D342).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
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 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this

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	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 ug/ml, Human, Mouse, Rat Flow Cytometry, 1-3 ug/1x10^6 cells, Human Direct ELISA, 0.1-0.5 ug/ml, Human

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Anti-ABHD4 Antibody Picoband™ (A14435-1) Images

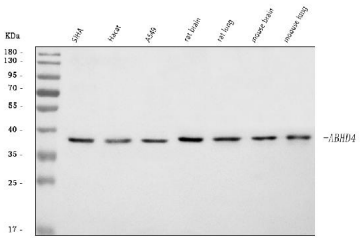

Figure 1. Western blot analysis of ABHD4 using anti-ABHD4 antibody (A14435-1).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human SiHa whole cell lysates,
Lane 2: human Hacat whole cell lysates,
Lane 3: human A549 whole cell lysates,
Lane 4: rat brain tissue lysates,
Lane 5: rat lung tissue lysates,
Lane 6: mouse brain tissue lysates,
Lane 7: mouse lung 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-ABHD4 antigen affinity purified polyclonal antibody (Catalog # A14435-1) 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 ABHD4 at approximately 39 kDa. The expected band size for ABHD4 is at 39 kDa.

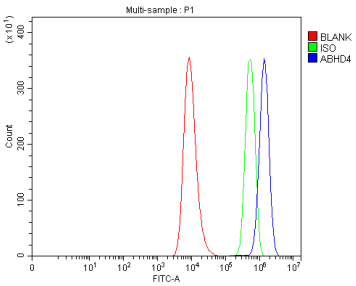

Figure 2. Flow Cytometry analysis of HEL cells using anti-ABHD4 antibody (A14435-1).
Overlay histogram showing HEL cells stained with A14435-1 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-ABHD4 Antibody (A14435-1, 1 ug/1x10^6 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x10^6 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10^6) used under the same conditions. Unlabelled sample (Red line) was also used as a control.