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antibody and ELISA experts

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3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-P2RY5/LPAR6 Antibody Picoband™

Catalog Number: A05725-1

About LPAR6

Lysophosphatidic acid receptor 6 also known as LPA6, P2RY5, and GPR87, is a protein that in humans is encoded by the LPAR6 gene. The protein encoded by this gene belongs to the family of G-protein coupled receptors, that are preferentially activated by adenosine and uridine nucleotides. This gene aligns with an internal intron of the retinoblastoma susceptibility gene in the reverse orientation. Alternative splicing results in multiple transcript variants.

Overview

Product Name	Anti-P2RY5/LPAR6 Antibody Picoband™
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-P2RY5/LPAR6 Antibody Picoband™ catalog # A05725-1. Tested in Flow Cytometry, WB applications. This antibody reacts with Human.
Application	Flow Cytometry, WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na_2HPO_4, 0.05mg NaN_3.
Storage Instructions	Store 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 freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P43657

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human P2RY5, which shares 92.3% and 89.7% amino acid (aa) sequence identity with mouse and rat P2RY5, respectively.
Recommended Detection Systems	Boster recommends HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
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, 0.1-0.5ug/ml Flow Cytometry, 1-3ug/1x10^6 cells

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Anti-P2RY5/LPAR6 Antibody Picoband™ (A05725-1) Images

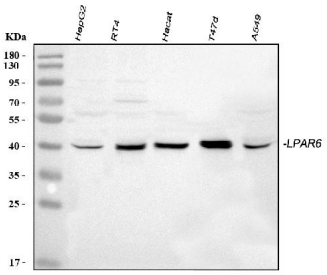

Figure 1. Western blot analysis of P2RY5 using anti-P2RY5 antibody (A05725-1).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human HepG2 whole cell lysates,
Lane 2: human RT4 whole cell lysates,
Lane 3: human Hacat whole cell lysates,
Lane 4: human T47D whole cell lysates,
Lane 5: human A549 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-P2RY5 antigen affinity purified polyclonal antibody (Catalog # A05725-1) 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 P2RY5 at approximately 39 kDa. The expected band size for P2RY5 is at 39 kDa.

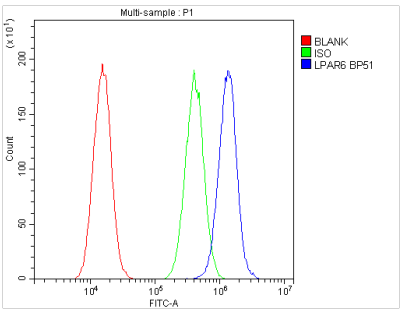

Figure 2. Flow Cytometry analysis of A549 cells using anti-P2RY5 antibody (A05725-1).
Overlay histogram showing A549 cells stained with A05725-1 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-P2RY5 Antibody (A05725-1,1ug/1x10^6 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10ug/1x10^6 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10^6) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

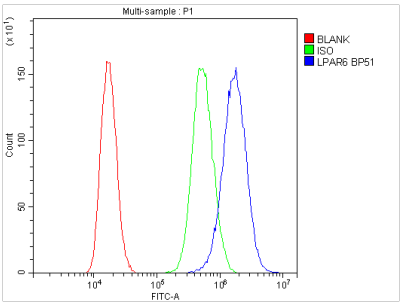

Figure 3. Flow Cytometry analysis of PC-3 cells using anti-P2RY5 antibody (A05725-1).
Overlay histogram showing PC-3 cells stained with A05725-1 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-P2RY5 Antibody (A05725-1,1ug/1x10^6 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10ug/1x10^6 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10^6) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

1 Publications Citing This Product

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1. PubMed ID: 10.1016/j.bioactmat.2021.07.007, Electrochemically derived nanographene oxide activates endothelial tip cells and promotes angiogenesis by binding endogenous lysophosphatidic acid

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