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Anti-PAR2/F2RL1 Antibody Picoband™

Catalog Number: PB9700

About F2RL1

Protease activated receptor 2 (PAR2), also known as coagulation factor II (thrombin) receptor-like 1 (F2RL1) or G-protein coupled receptor 11 (GPR11), is a protein that in humans is encoded by the F2RL1 gene. F2RL1 is a member of the large family of 7-transmembrane-region receptors that couple to guanosine-nucleotide-binding proteins. F2RL1 is also a member of the protease-activated receptor family. It is activated by trypsin, but not by thrombin. It is activated by proteolytic cleavage of its extracellular amino terminus. The new amino terminus functions as a tethered ligand and activates the receptor. The F2RL1 gene contains two exons and is widely expressed in human tissues. Additionally, PAR2 modulates inflammatory responses and acts as a sensor for proteolytic enzymes generated during infection.

Overview

Product Name	Anti-PAR2/F2RL1 Antibody Picoband™
Reactive Species	Human
Description	Boster Bio Anti-PAR2/F2RL1 Antibody Picoband™ catalog # PB9700. Tested in WB applications. This antibody reacts with Human.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
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	P55085

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human PAR2, different from the related mouse sequence by eight amino acids, and from the related rat sequence by seven amino acids.
Predicted Reactive Species	Bovine, Monkey, Rabbit
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

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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 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, Human

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Anti-PAR2/F2RL1 Antibody Picoband™ (PB9700) Images

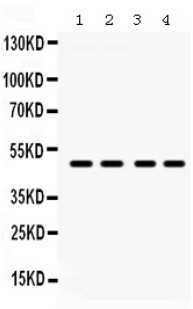

Figure 1. Western blot analysis of PAR2 using anti-PAR2 antibody (PB9700).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 40ug of sample under reducing conditions.
Lane 1: HELA Whole Cell Lysate,
Lane 2: COLO320 Whole Cell Lysate,
Lane 3: SW620 Whole Cell Lysate,
Lane 4: HEPG2 Whole Cell Lysate.
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-PAR2 antigen affinity purified polyclonal antibody (Catalog # PB9700) 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 PAR2 at approximately 49 kDa. The expected band size for PAR2 is at 44 kDa.

1 Publications Citing This Product

1. PubMed ID: 27906434, D. QUANJUN, Z. QINGYU, Z. QILIANG, X. LIQUN, C. JINMEI, L. ZIQUAN, H. SHIKE Eur Rev Med Pharmacol Sci. 2016 Nov;20(22):4688-4696. Effect and mechanism of PAR-2 on the proliferation of esophageal cancer cells.

Visit bosterbio.com/anti-par2-picoband-trade-antibody-pb9700-boster.html to see all 1 publications.

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