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antibody and ELISA experts

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Anti-Adgrg1 Antibody Picoband®

Catalog Number: A05578-2

About Adgrg1

Enables several functions, including collagen binding activity; extracellular matrix binding activity; and heparin binding activity. Involved in several processes, including negative regulation of neuron migration; positive regulation of Rho protein signal transduction; and seminiferous tubule development. Acts upstream of or within cerebral cortex regionalization; hematopoietic stem cell homeostasis; and positive regulation of neural precursor cell proliferation. Located in glial limiting end-foot. Is expressed in several structures, including alimentary system; ganglia; genitourinary system; respiratory system; and sensory organ. Human ortholog(s) of this gene implicated in bilateral frontoparietal polymicrogyria and bilateral perisylvian polymicrogyria. Orthologous to human ADGRG1 (adhesion G protein-coupled receptor G1).

Overview

Product Name	Anti-Adgrg1 Antibody Picoband®
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-Adgrg1 Antibody Picoband® catalog # A05578-2. Tested in ELISA, Flow Cytometry, IHC, WB applications. This antibody reacts with 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, IHC, 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	Q8K209

Technical Details

Immunogen	E.coli-derived mouse Adgrg1 recombinant protein (Position: E53-S554).
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 IHC(P).
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized

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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, Mouse, Rat Immunohistochemistry(Paraffin-embedded Section), 2-5 µg/ml, Mouse, Rat Flow Cytometry (Fixed), 1-3 µg/1x10^6 cells, Mouse ELISA, 0.1-0.5 µg/ml, Mouse

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Anti-Adgrg1 Antibody Picoband® (A05578-2) Images

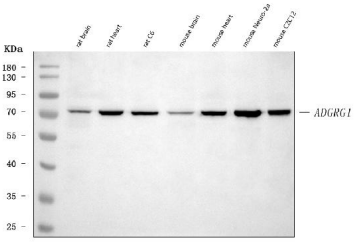

Figure 1. Western blot analysis of Adgrg1 using anti-Adgrg1 antibody (A05578-2).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: rat brain tissue lysates,
Lane 2: rat heart tissue lysates,
Lane 3: rat C6 whole cell lysates,
Lane 4: mouse brain tissue lysates,
Lane 5: mosue heart tissue lysates,
Lane 6: mouse Neuro-2a whole cell lysates,
Lane 7: mouse C2C12 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-Adgrg1 antigen affinity purified polyclonal antibody (Catalog # A05578-2) 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 Adgrg1 at approximately 78 kDa. The expected band size for Adgrg1 is at 78 kDa.

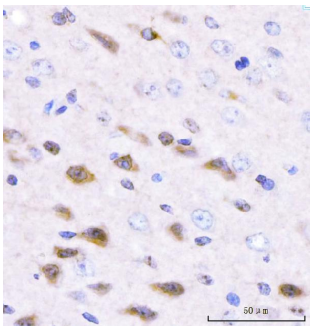

Figure 2. IHC analysis of Adgrg1 using anti-Adgrg1 antibody (A05578-2).
Adgrg1 was detected in a paraffin-embedded section of mouse brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-Adgrg1 Antibody (A05578-2) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

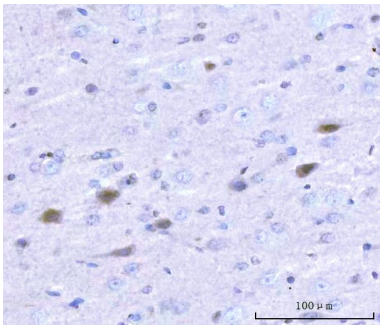

Figure 3. IHC analysis of Adgrg1 using anti-Adgrg1 antibody (A05578-2).
Adgrg1 was detected in a paraffin-embedded section of rat brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-Adgrg1 Antibody (A05578-2) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the

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chromogen.

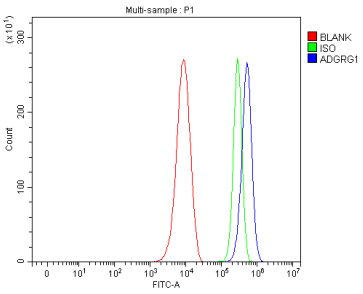

Figure 4. Flow Cytometry analysis of RAW264.7 cells using anti-Adgrg1 antibody (A05578-2).
Overlay histogram showing RAW264.7 cells stained with A05578-2 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-Adgrg1 Antibody (A05578-2, 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 without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

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