

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

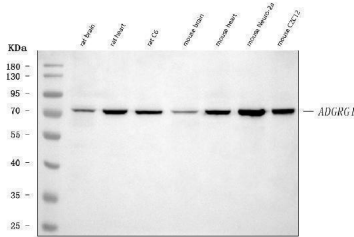
Product Name	Anti-Adgrg1 Antibody Picoband®
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-Adgrg1 Antibody Picoband® catalog # A05578-2. Tested in ELISA, Flow Cytometry, IHC, WB applications. This antibody reacts with Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees 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 Na ₂ HPO ₄ .
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

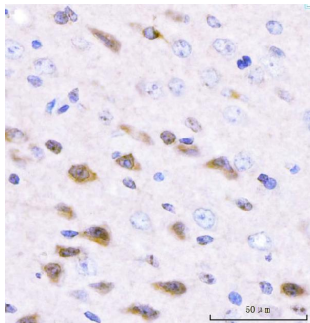
Immunogen	E.coli-derived mouse Adgrg1 recombinant protein (Position: E53-S554).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized

Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 µg/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5 ug/ml, Mouse, Rat Immunohistochemistry(Paraffin-embedded Section), 2-5 ug/ml, Mouse, Rat Flow Cytometry (Fixed), 1-3 ug/1x10 ⁶ cells, Mouse ELISA, 0.1-0.5 ug/ml, -

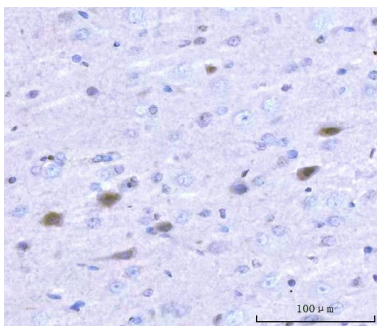
Anti-Adgrg1 Antibody Picoband® (A05578-2) Images



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: mouse 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.

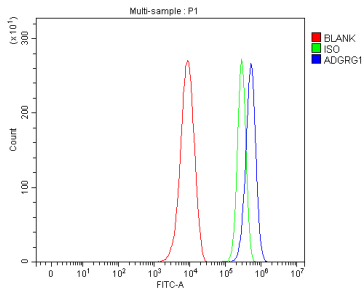


IHC analysis of Adgrg1 using anti-Adgrg1 antibody (A05578-2). Adgrg1 was detected in a paraffin-embedded section of mouse brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section 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.



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 chromogen.

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/1x10⁶ cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) 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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Anti-Adgrg1 Antibody

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