

Rabbit anti-Mouse, Rat Adgrg1 Polyclonal Antibody | anti-ADGRG1 antibody

Anti-Adgrg1 Antibody Picoband

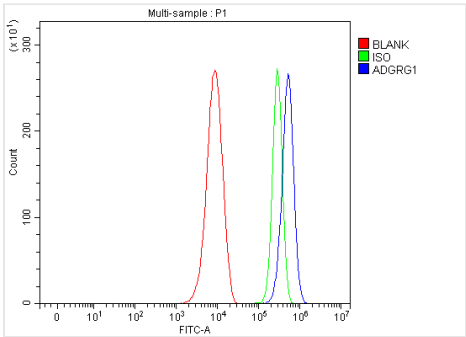
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126431	Rabbit	Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

Adgrg1; Polyclonal Antibody; Anti-Adgrg1 Antibody Picoband; anti-ADGRG1 antibody

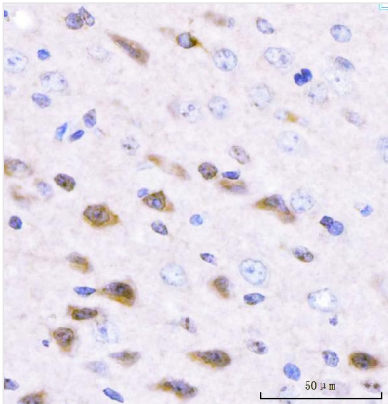
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-ADGRG1 antibody	ELISA, FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived mouse Adgrg1 recombinant protein (Position: E53-S554).
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.



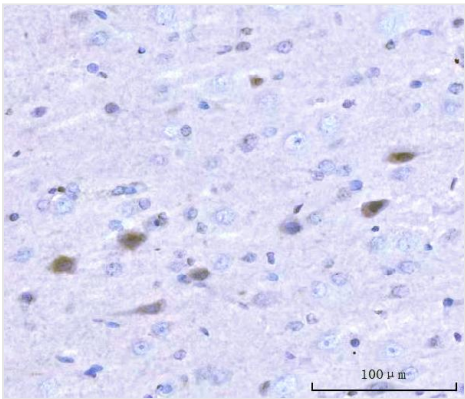
FCM/FACS (Flow Cytometry)

Figure 4. Flow Cytometry analysis of RAW264.7 cells using anti-Adgrg1 antibody (AAA126431).Overlay histogram showing RAW264.7 cells stained with AAA126431 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Adgrg1 Antibody (AAA126431, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



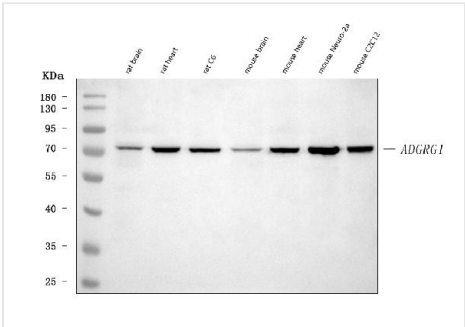
IHC (Immunohistochemistry)

Figure 2. IHC analysis of Adgrg1 using anti-Adgrg1 antibody (AAA126431).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 (AAA126431) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 3. IHC analysis of Adgrg1 using anti-Adgrg1 antibody (AAA126431).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 (AAA126431) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of Adgrg1 using anti-Adgrg1 antibody (AAA126431).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 (#AAA126431) at 0.5 ug/mL overnight at 4 degree 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 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.

ADDITIONAL INFORMATION

Related Product Information for anti-ADGRG1 antibody

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).

Product Categories/Family for anti-ADGRG1 antibody

Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	312032400
NCBI GeneID	14766
NCBI Accession #	NP_001185823.1
NCBI GenBank Nucleotide #	NM_001198894.1
UniProt Accession #	Q8K209; Q3UR17; Q9QZT2
Molecular Weight	77,255 Da
NCBI Official Full Name	G-protein coupled receptor 56
NCBI Official Synonym Full Names	G protein-coupled receptor 56
NCBI Official Symbol	Gpr56
NCBI Official Synonym Symbols	Cyt28; TM7LN4; TM7XN1
NCBI Protein Information	G-protein coupled receptor 56; secretin receptor; serpentine receptor cyt28
UniProt Protein Name	G-protein coupled receptor 56
UniProt Gene Name	Gpr56
UniProt Synonym Gene Names	Cyt28; GPR56 NT; GPR56(N); GPR56 CT; GPR56(C); GPR56 7TM
UniProt Entry Name	GPR56_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://www.aaabiotech.com/polyclonal/adgrg1-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/126431>