

Rabbit anti-Human RGS9 Polyclonal Antibody | anti-RGS9 antibody

Anti-RGS9 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127251	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

RGS9; Polyclonal Antibody; Anti-RGS9 Antibody Picoband; C-C motif chemokine receptor 10; C-C chemokine receptor type 10; C-C CKR-10; CC-CKR-10; CCR-10; G-protein coupled receptor 2; CCR10; GPR2; anti-RGS9 antibody

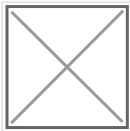
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Expressed at high levels in adult testis, small intestine, fetal lung, fetal kidney. Weaker expression was observed in many other adult tissues including spleen, thymus, lymph node, Peyer patches, colon, heart, ovary, peripheral blood lymphocytes, thyroid and spinal cord. Also expressed by melanocytes, dermal fibroblasts, dermal microvascular endothelial cells. Also detected in T-cells and in skin-derived Langerhans cells.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Applicable Applications for anti-RGS9 antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived human RGS9 recombinant protein (Position: R13-D638).
Subcellular Localization	Cell membrane, Multi-pass membrane protein
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein Function	Receptor for chemokines SCYA27 and SCYA28. Subsequently transduces a signal by increasing the intracellular calcium ions level and stimulates chemotaxis in a pre-B cell line.
Preparation and Storage	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 3. Flow Cytometry analysis of HEL cells using anti-RGS9 antibody (AAA127251).Overlay histogram showing HEL cells stained with AAA127251 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-RGS9 Antibody (AAA127251, 1ug/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 (1ug/1x106) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



WB (Western Blot)

Figure 1. Western blot analysis of RGS9 using anti-RGS9 antibody (AAA127251).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 SH-SY5Y whole cell lysates,Lane 2: human U20S whole cell lysates,Lane 3: human HEL whole cell lysates,Lane 4: human Daudi 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-RGS9 antigen affinity purified polyclonal antibody (#AAA127251) at 0.5ug/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 RGS9 at approximately 77 kDa. The expected band size for RGS9 is at 77 kDa.



IF (Immunofluorescence)

Figure 2. IF analysis of RGS9 and Tubulin beta using anti-RGS9 antibody (AAA127251) and anti-Tubulin beta antibody (M05613-4).RGS9 and Tubulin beta was detected in an immunocytochemical section of A431 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-RGS9 Antibody (AAA127251) and mouse anti-Tubulin beta Antibody (M05613-4) overnight at 4 degree C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) and DyLight488 Conjugated Goat Anti-Mouse IgG (BA1126) were used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

ADDITIONAL INFORMATION

Related Product Information for anti-RGS9 antibody	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.
Product Categories/Family for anti-RGS9 antibody	Primary Antibodies; Chemokines; Immunology; Innate Immunity
References	1. Cabrera-Vera, T. M., Hernandez, S., Earls, L. R., Medkova, M., Sundgren-Andersson, A. K., Surmeier, D. J., Hamm, H. E. RGS9-2 modulates D2 dopamine receptor-mediated Ca(2+) channel inhibition in rat striatal cholinergic interneurons. Proc. Nat. Acad. Sci. 101: 16339-16344, 2004.2. Hu, G., Zhang, Z., Wensel, T. G. Activation of RGS9-1GTPase acceleration by its membrane anchor, R9AP. J. Biol. Chem. 278: 14550-14554, 2003.3. Sierra, D. A., Gilbert, D. J., Householder, D., Grishin, N. V., Yu, K., Ukidwe, P., Barker, S. A., He, W., Wensel, T. G., Otero, G., Brown, G., Copeland, N. G., Jenkins, N. A., Wilkie, T. M. Evolution of the regulators of G-protein signaling multigene family in mouse and human. Genomics 79: 177-185, 2002.

NCBI AND UNIPROT INFORMATION

NCBI GI #	8475983
NCBI GeneID	8787
UniProt Accession #	O75916; O75573; Q696R2; Q8TD64; Q8TD65; Q9HC32; Q9HC33; A8K3C0
Molecular Weight	76,625 Da
NCBI Official Full Name	Regulator of G-protein signaling 9

NCBI Official Synonym Full Names	regulator of G-protein signaling 9
NCBI Official Symbol	RGS9
NCBI Official Synonym Symbols	PERRS; RGS9L
NCBI Protein Information	regulator of G-protein signaling 9; regulator of G-protein signalling 9
UniProt Protein Name	Regulator of G-protein signaling 9
UniProt Gene Name	RGS9
UniProt Synonym Gene Names	RGS9
UniProt Entry Name	RGS9_HUMAN

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