

Rabbit anti-Human RGS18 Polyclonal Antibody | anti-RGS18 antibody

Anti-RGS18 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125814	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

RGS18; Polyclonal Antibody; Anti-RGS18 Antibody; RGS13; Regulator of G-protein signaling 18; regulator of G protein signaling 18; anti-RGS18 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for RGS18 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.01mg NaN ₃ .
Applicable Applications for anti-RGS18 antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E Coli-derived human RGS18 recombinant protein (Position: M1-D230).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of U937 cells using anti-RGS18 antibody (AAA125814). Overlay histogram showing U937 cells stained with AAA125814 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-RGS18 Antibody (AAA125814, 1µg/1x10⁶ cells) for 30 min at 20 degree C. DyLight[®]488 conjugated goat anti-rabbit IgG (5-10µg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1µg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of RGS18 using anti-RGS18 antibody (AAA125814). 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 50ug of sample under reducing conditions. Lane 1: human K562 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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-RGS18 antigen affinity purified polyclonal antibody (Catalog # AAA125814) at 0.5 µg/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 RGS18 at approximately 27KD. The expected band size for RGS18 is at 27KD.

ADDITIONAL INFORMATION

Related Product Information for anti-RGS18 antibody	Regulator of G-protein signaling 18 is a protein that in humans is encoded by the RGS18 gene. This gene encodes a member of the regulator of G-protein signaling family. This protein contains a conserved, 120 amino acid motif called the RGS domain. The protein attenuates the signaling activity of G-proteins by binding to activated, GTP-bound G alpha subunits and acting as a GTPase activating protein (GAP), increasing the rate of conversion of the GTP to GDP. This hydrolysis allows the G alpha subunits to bind G beta/gamma subunit heterodimers, forming inactive G-protein heterotrimers, thereby terminating the signal. Alternate transcriptional splice variants of this gene have been observed but have not been thoroughly characterized.
References	1. Park, I. -K., Klug, C. A., Li, K., Jerabek, L., Li, L., Nanamori, M., Neubig, R. R., Hood, L., Weissman, I. L., Clarke, M. F. Molecular cloning and characterization of a novel regulator of G-protein signaling from mouse hematopoietic stem cells. J. Biol. Chem. 276: 915-923, 2001. 2. 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. 3.

NCBI AND UNIPROT INFORMATION

NCBI GI #	18640750
NCBI GeneID	64407
NCBI Accession #	NP_570138.1
NCBI GenBank Nucleotide #	NM_130782.2
UniProt Accession #	Q9NS28; B2RD23
Molecular Weight	27,582 Da
NCBI Official Full Name	regulator of G-protein signaling 18
NCBI Official Synonym Full Names	regulator of G-protein signaling 18
NCBI Official Symbol	RGS18
NCBI Official Synonym Symbols	RGS13
NCBI Protein Information	regulator of G-protein signaling 18
UniProt Protein Name	Regulator of G-protein signaling 18
UniProt Gene Name	RGS18
UniProt Synonym Gene Names	RGS13
UniProt Entry Name	RGS18_HUMAN

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