

Goat Anti-RGS1 / 1R20 Antibody

Peptide-affinity purified goat antibody Catalog # AF1923a

Specification

Goat Anti-RGS1 / 1R20 Antibody - Product Information

Application WB, E
Primary Accession O08116

Other Accession <u>NP_002913</u>, <u>5996</u>, <u>50778 (mouse)</u>

Reactivity Human

Predicted Mouse, Rat, Dog

Host Goat
Clonality Polyclonal
Concentration 100ug/200ul

Isotype IgG
Calculated MW 23858

Goat Anti-RGS1 / 1R20 Antibody - Additional Information

Gene ID 5996

Other Names

Regulator of G-protein signaling 1, RGS1, B-cell activation protein BL34, Early response protein 1R20, RGS1, 1R20, BL34, IER1

Dilution

WB~~1:1000

E~~N/A

Format

0.5 mg lgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat Anti-RGS1 / 1R20 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-RGS1 / 1R20 Antibody - Protein Information

Name RGS1

Synonyms 1R20, BL34, IER1



Function

Regulates G protein-coupled receptor signaling cascades, including signaling downstream of the N-formylpeptide chemoattractant receptors and leukotriene receptors (PubMed:10480894). Inhibits B cell chemotaxis toward CXCL12 (By similarity). Inhibits signal transduction by increasing the GTPase activity of G protein alpha subunits thereby driving them into their inactive GDP-bound form (PubMed:10480894, PubMed:18434541).

Cellular Location

Cell membrane; Peripheral membrane protein; Cytoplasmic side. Cytoplasm, cytosol

Tissue Location

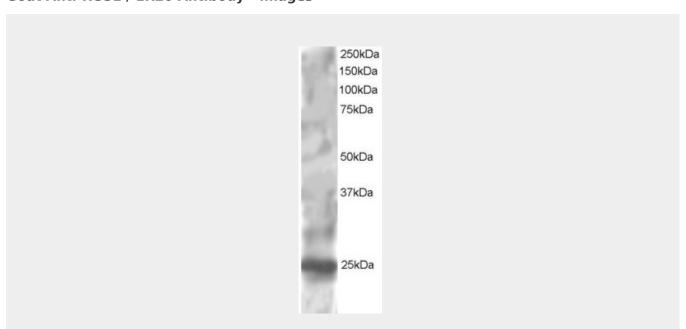
Detected in peripheral blood monocytes (PubMed:10480894). Expression is relatively low in B-cells and chronic lymphocytic leukemia B-cells; however, in other types of malignant B- cell such as non-Hodgkin lymphoma and hairy cell leukemia, expression is constitutively high (PubMed:8473738).

Goat Anti-RGS1 / 1R20 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- <u>Immunofluorescence</u>
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Goat Anti-RGS1 / 1R20 Antibody - Images



AF1923a staining (1 μ g/ml) of HepG2 lysate (RIPA buffer, 30 μ g total protein per lane). Primary incubated for 1 hour. Detected by western blot using chemiluminescence.

Goat Anti-RGS1 / 1R20 Antibody - Background



Tel: 858.875.1900 Fax: 858.875.1999

This gene encodes a member of the regulator of G-protein signalling family. This protein is located on the cytosolic side of the plasma membrane and contains a conserved, 120 amino acid motif called the RGS domain. The protein attenuates the signalling 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.

Goat Anti-RGS1 / 1R20 Antibody - References

Investigation of type 1 diabetes and coeliac disease susceptibility loci for association with juvenile idiopathic arthritis. Hinks A, et al. Ann Rheum Dis, 2010 Jul 20. PMID 20647273.

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Association study of 182 candidate genes in anorexia nervosa. Pinheiro AP, et al. Am J Med Genet B Neuropsychiatr Genet, 2010 Jul. PMID 20468064.

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