

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	Q08116
Other Accession	NP_002913 , 5996 , 50778 (mouse)
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 IgG/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](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Goat Anti-RGS1 / 1R20 Antibody - Images

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

Goat Anti-RGS1 / 1R20 Antibody - Background

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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