

Goat Anti-PGRP-S Antibody
Peptide-affinity purified goat antibody
Catalog # AF1819a**Specification**

Goat Anti-PGRP-S Antibody - Product Information

Application	WB, IHC
Primary Accession	O75594
Other Accession	NP_005082 , 8993
Reactivity	Human
Predicted	Dog
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	21731

Goat Anti-PGRP-S Antibody - Additional Information**Gene ID** 8993**Other Names**

Peptidoglycan recognition protein 1, Peptidoglycan recognition protein short, PGRP-S, PGLYRP1, PGLYRP, PGRP, TNFSF3L

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-PGRP-S Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-PGRP-S Antibody - Protein Information**Name** PGLYRP1**Synonyms** PGLYRP, PGRP, TNFSF3L**Function**

Innate immunity protein that plays several important functions in antimicrobial and antitumor defense systems. Acts as a pattern receptor that binds to murein peptidoglycans (PGN) of Gram-positive bacteria and thus provides bactericidal activity (PubMed:9707603). Forms an equimolar complex with heat shock protein HSPA1A and induces programmed cell death through apoptosis and necroptosis in tumor cell lines by activating the TNFR1 receptor on the target cell membrane (PubMed:21247889, PubMed:26183779). In addition, acts in complex with the Ca(2+)-binding protein S100A4 as a chemoattractant able to induce lymphocyte movement (PubMed:26654597). Mechanistically, this complex acts as a ligand of the chemotactic receptors CCR5 and CXCR3 which are present on the cells of the immune system (PubMed:30713770). Promotes also the activation of lymphocytes that become able to kill virus-infected cells as well as tumor cells by modulating the spectrum of their target-cell specificity (PubMed:28977785, PubMed:29083508). Induction of cytotoxicity on monocyte surface requires interaction with TREM1 receptor (PubMed:25595774, PubMed:28977785).

Cellular Location

Secreted. Cytoplasmic granule

Tissue Location

Highly expressed in bone marrow. Weak expression found in kidney, liver, small intestine, spleen, thymus, peripheral leukocyte, lung, fetal spleen and neutrophils

Goat Anti-PGRP-S Antibody - Protocols

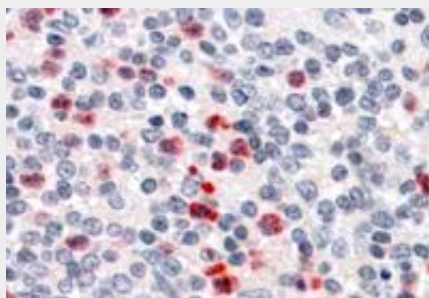
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Goat Anti-PGRP-S Antibody - Images



AF1819a (0.3 µg/ml) staining of Jurkat lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



AF1819a (3.8 µg/ml) staining of paraffin embedded Human Spleen. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

Goat Anti-PGRP-S Antibody - References

Variation at the NFATC2 Locus Increases the Risk of Thiazolinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.

Gene-centric association signals for lipids and apolipoproteins identified via the HumanCVD BeadChip. Talmud PJ, et al. Am J Hum Genet, 2009 Nov. PMID 19913121.

Opposite roles of metastasin (S100A4) in two potentially tumoricidal mechanisms involving human lymphocyte protein Tag7 and Hsp70. Dukhanina EA, et al. Proc Natl Acad Sci U S A, 2009 Aug 18. PMID 19666596.

Interactions and possible functional characteristics of Tag7-S100A4 protein complex. Dukhanina EA, et al. Bull Exp Biol Med, 2008 Feb. PMID 19023966.

The association between peptidoglycan recognition protein-1 and coronary and peripheral atherosclerosis: Observations from the Dallas Heart Study. Rohatgi A, et al. Atherosclerosis, 2009 Apr. PMID 18774573.