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PGLYRP1 / PGRP Antibody (C-Terminus)
Goat Polyclonal Antibody
Catalog # ALS13704

Specification

PGLYRP1 / PGRP Antibody (C-Terminus) - Product Information

Application	**WB, IHC**
Primary Accession	O75594
Reactivity	**Human**
Host	**Goat**
Clonality	**Polyclonal**
Calculated MW	**22kDa KDa**

PGLYRP1 / PGRP Antibody (C-Terminus) - Additional Information

Gene ID 8993

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

Target/Specificity
Human PGLYRP1 / PGRP.

Reconstitution & Storage
Store at -20°C. Minimize freezing and thawing.

Precautions
PGLYRP1 / PGRP Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

PGLYRP1 / PGRP Antibody (C-Terminus) - 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:<a

href="http://www.uniprot.org/citations/26654597" target="_blank">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:29083508, PubMed:28977785). Induction of cytotoxicity on monocyte surface requires interaction with TREM1 receptor (PubMed:28977785, PubMed:25595774).

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

PGLYRP1 / PGRP Antibody (C-Terminus) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PGLYRP1 / PGRP Antibody (C-Terminus) - Images

Antibody (0.3 ug/ml) staining of Jurkat lysate (35 ug protein in RIPA buffer).

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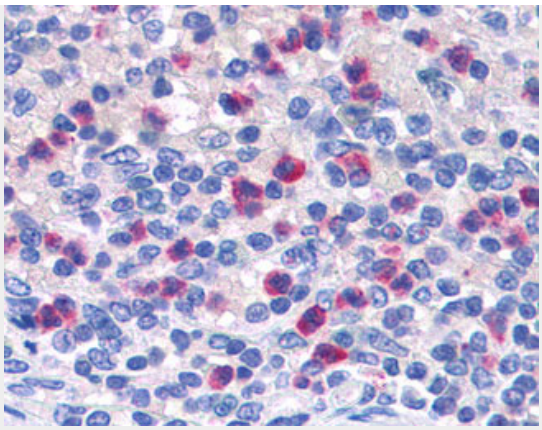

Anti-PGLYRP1 / PGRP antibody IHC of human spleen.

PGLYRP1 / PGRP Antibody (C-Terminus) - Background

Pattern receptor that binds to murein peptidoglycans (PGN) of Gram-positive bacteria. Has bactericidal activity towards Gram-positive bacteria. May kill Gram-positive bacteria by interfering with peptidoglycan biosynthesis. Binds also to Gram- negative bacteria, and has bacteriostatic activity towards Gram- negative bacteria. Plays a role in innate immunity.

PGLYRP1 / PGRP Antibody (C-Terminus) - References

Kang D.,et al.Proc. Natl. Acad. Sci. U.S.A. 95:10078-10082(1998).
Wan T.,et al.Submitted (MAR-2000) to the EMBL/GenBank/DDBJ databases.
Clark H.F.,et al.Genome Res. 13:2265-2270(2003).
Grimwood J.,et al.Nature 428:529-535(2004).
Liu C.,et al.J. Biol. Chem. 276:34686-34694(2001).