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PGLYRP1 Polyclonal Antibody

Catalog # AP73917

Product Information

Application	WB, E, IHC-P
Primary Accession	O75594
Reactivity	Human, Rat, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	21731

Additional Information

Gene ID	8993
Other Names	PGLYRP1; PGLYRP; PGRP; TNFSF3L; SBBI68; Peptidoglycan recognition protein 1; Peptidoglycan recognition protein short; PGRP-S
Dilution	WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications. E~~N/A IHC-P~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20℃

Protein Information

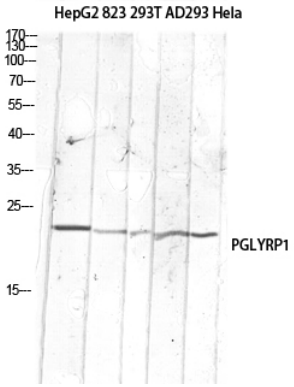
Name	PGLYRP1
Synonyms	PGLYRP, PGRP, TNFSF3L
Function	Innate immunity protein that plays several important functions in antimicrobial and antitumor defense systems. Acts as a pattern receptor that binds to murein peptidoglycans (PGN) of Gram- positive bacteria and thus provides bactericidal activity (PubMed:9707603). 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). Also promotes 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

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.

Images



Western blot analysis of HepG2 823-AV 293T AD293 Hela lysis using PGLYRP1 antibody. Antibody was diluted at 1:1000. Secondary antibody was diluted at 1:20000

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.