

PGLYRP1 Antibody / Peptidoglycan recognition protein 1 Antibody (FY13527)

Catalog No.	Formulation	Size
FY13527	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

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Species Reactivity	Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Buffer	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
UniProt	O88593
Applications	Western Blot : 0.5-1ug/ml
Limitations	This PGLYRP1 Antibody / Peptidoglycan recognition protein 1 Antibody is provided for laboratory research use only.

PGLYRP1 Antibody by WB in rat and mouse tissues and cells. Western blot analysis using Peptidoglycan recognition protein 1 Antibody detects a principal band near 30 kDa in rat brain (lane 1), rat UMR-106 cells (lane 2), mouse brain (lane 3), and mouse MH-S cells (lane 4). Although the calculated mass is approximately 21-22 kDa, published research has documented PGLYRP1 migration near 30 kDa under reducing conditions, and independent antibody data also report migration above the predicted size. Band intensity is relatively similar across the samples. Each lane contained 30 ug of reduced lysate separated by 12% SDS-PAGE, followed by incubation with primary antibody at 0.5 ug/mL overnight at 4oC.

Description

PGLYRP1 Antibody / Peptidoglycan recognition protein 1 Antibody detects PGLYRP1, a secreted innate immune protein that recognizes peptidoglycan, a major structural component of bacterial cell walls. Peptidoglycan consists of repeating sugar units cross-linked by short peptides, and its molecular features provide important signals of bacterial presence. PGLYRP1 belongs to a family of peptidoglycan recognition proteins whose members differ in tissue distribution and biological activity. The protein is abundant in neutrophil granules and can be released as part of an antimicrobial response. Its ability to interact with bacterial cell-wall components links molecular recognition to immediate host defense.

Unlike some related peptidoglycan recognition proteins that possess amidase activity, PGLYRP1 is primarily associated with antimicrobial activity rather than enzymatic cleavage of peptidoglycan. It can contribute to bacterial killing through interactions that disturb bacterial physiology and enhance susceptibility to host defense mechanisms. PGLYRP1 has also been described in association with other innate immune proteins, illustrating how recognition and antimicrobial responses can operate cooperatively. Its activity is influenced by the surrounding extracellular environment and the characteristics of the encountered microorganism.

The role of PGLYRP1 extends beyond a simple distinction between bacterial and host material. Innate immune recognition must respond rapidly while avoiding excessive inflammation, and peptidoglycan-associated signaling is one part of this balance. Changes in PGLYRP1 abundance or function may influence local antimicrobial protection and inflammatory conditions. The protein is therefore relevant to understanding neutrophil biology, epithelial defense, and the interplay between microbial structures and host responses. The Peptidoglycan recognition protein 1 Antibody name refers to the same PGLYRP1 gene product, rather than to a separate member of the protein family. NSJ Bioreagents offers the PGLYRP1 Antibody for this biologically distinct innate immune target. A PGLYRP1 Antibody is relevant to understanding the molecular functions and regulatory pathways associated with PGLYRP1.

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Application Notes

Optimal working dilutions for the PGLYRP1 Antibody / Peptidoglycan recognition protein 1 Antibody should be established experimentally for each assay.

Immunogen

The PGLYRP1 Antibody was generated using a synthetic peptide corresponding to a sequence at the C-terminus of mouse PGLYRP1.

Storage

Store the reconstituted PGLYRP1 Antibody at 4oC for up to one month. For long-term storage, divide into aliquots and keep at -20oC for up to six months. Avoid repeated freeze-thaw cycles.

Alternate Names

PGLYRP1 antibody, Peptidoglycan recognition protein 1 antibody, Pglyrp antibody, Pgrp antibody, Pgrps antibody, Tag7 antibody, Cytokine tag7 antibody, Peptidoglycan recognition protein short antibody, PGRP-S antibody