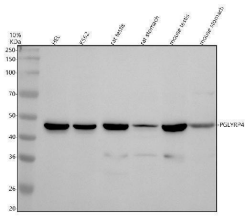
PGLYRP4 Antibody / Peptidoglycan recognition protein 4 Antibody (FY13543)

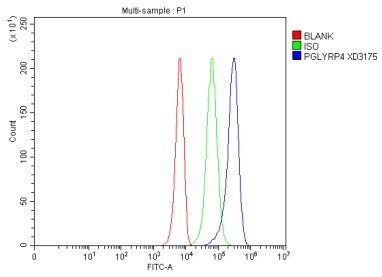
Catalog No.	Formulation	Size
FY13543	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Species Reactivity	Human, 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 Na2HPO4.
UniProt	Q96LB8
Applications	Western blot: 0.5-1ug/ml Flow cytometry: 1-3ug/million cells
Limitations	The PGLYRP4 Antibody / Peptidoglycan recognition protein 4 Antibody is available for research use only.



PGLYRP4 Antibody by WB in human and rodent samples. Western blot analysis using Peptidoglycan recognition protein 4 Antibody detects a prominent band at approximately 45 kDa in the tested lysates. Lanes 1 and 2 contain human HEL and K562 whole-cell lysates; lanes 3 and 4 contain rat testis and stomach; lanes 5 and 6 contain mouse testis and stomach. Each lane received 30 ug reduced protein, resolved by 10% SDS-PAGE and transferred to nitrocellulose. The primary antibody was incubated at 0.5 ug/mL overnight at 4oC, followed by HRP-conjugated secondary antibody and chemiluminescent detection. The principal signal occurs at a comparable molecular weight across samples.



PGLYRP4 Antibody by FACS in K562 cells. Flow cytometry analysis using Peptidoglycan recognition protein 4 Antibody demonstrates a rightward shift of the blue antibody-stained K562 cell population compared with the green isotype control and red unstained control. Cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum before incubation with primary antibody at 1 ug per 1 x 10^6 cells for 30 minutes at 20oC. Fluorescent anti-rabbit secondary antibody was applied for an additional 30 minutes. The histogram illustrates PGLYRP4-associated staining relative to the controls in this fixed-cell assay.

Description

PGLYRP4 Antibody / Peptidoglycan recognition protein 4 Antibody detects PGLYRP4, a member of a family of proteins involved in innate immune recognition of bacterial cell wall components. Peptidoglycan is a structural polymer found in bacterial envelopes and provides a molecular feature that host organisms can distinguish from their own tissues. PGLYRP family members differ in their distribution and biochemical activities, so their roles should not be treated as interchangeable. PGLYRP4 is associated particularly with epithelial defense and contributes to the molecular interface between host tissues and microorganisms.

Peptidoglycan recognition proteins can interact with bacterial surface structures and participate in antimicrobial responses. PGLYRP4 has been reported to exert antibacterial effects through mechanisms that involve disruption of bacterial physiology rather than simply functioning as a passive binding protein. Its activity may be influenced by microbial characteristics and the surrounding tissue environment. Epithelial surfaces rely on multiple overlapping defense systems, including physical barriers, secreted proteins, and immune signaling pathways. PGLYRP4 forms part of this integrated response and helps illustrate the diversity of innate immune effector molecules. The Peptidoglycan recognition protein 4 Antibody designation identifies this molecular target by its descriptive protein name.

The balance between microbial exposure and host defense is important for tissue homeostasis. Changes in the expression or activity of epithelial defense proteins may alter interactions with resident and invading microorganisms, although individual effects are context dependent. PGLYRP4 is distinct from PGLYRP1, PGLYRP2, and PGLYRP3, each of which has its own biological profile. NSJ Bioreagents offers the PGLYRP4 Antibody for this innate immunity target. A PGLYRP4 Antibody relates to the biology of peptidoglycan recognition, epithelial antimicrobial defense, and host-microbe interactions.

Explore related research targets in our Immunology Antibodies collection.

Application Notes

The ideal working dilution for the PGLYRP4 Antibody / Peptidoglycan recognition protein 4 Antibody should be established by the investigator based on assay conditions.

Immunogen

The PGLYRP4 Antibody was generated using a synthetic peptide corresponding to a sequence at the C-terminus of human PGLYRP4.

Storage

The PGLYRP4 Antibody is stable for up to one month at 4oC after reconstitution. For longer-term storage, aliquot and store at -20oC for up to six months. Do not repeatedly freeze and thaw.

Alternate Names

PGLYRP4 antibody, Peptidoglycan recognition protein 4 antibody, PGRPIB antibody, SBBI67 antibody, Peptidoglycan recognition protein I-beta antibody, PGLYRPIbeta antibody, PGRP-I-beta antibody, Peptidoglycan recognition protein intermediate beta antibody

Copyright © NSJ Bioreagents. All rights reserved.