# Human PGLYRP4/PGRP-Iβ Antibody

Monoclonal Mouse $IgG_{2B}$ Clone # 474034

Catalog Number: MAB3018

## DESCRIPTION

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| **Species Reactivity** | Human |
| **Specificity** | Detects human PGLYRP4/PGRP-Iβ in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant mouse PGRP-Iβ or recombinant human PGRP-S is observed. |
| **Source** | Monoclonal Mouse $IgG_{2B}$ Clone # 474034 |
| **Purification** | Protein A or G purified from hybridoma culture supernatant |
| **Immunogen** | Mouse myeloma cell line NS0-derived recombinant human PGLYRP4/PGRP-Iβ<br>Asp18-His373<br>Accession # Q96LB8 |
| **Formulation** | Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.<br>*Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS. |

## APPLICATIONS

**Please Note:** *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

| | Recommended Concentration | Sample |
|---|---|---|
| **Western Blot** | 1 µg/mL | Recombinant Human PGLYRP4/PGRP-Iβ |
| **Immunoprecipitation** | 25 µg/mL | Conditioned cell culture medium spiked with Recombinant Human PGLYRP4/PGRP-Iβ, see our available Western blot detection antibodies |

## PREPARATION AND STORAGE

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| **Reconstitution** | Reconstitute at 0.5 mg/mL in sterile PBS. |
| **Shipping** | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.<br>*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C |
| **Stability & Storage** | **Use a manual defrost freezer and avoid repeated freeze-thaw cycles.**<br>● 12 months from date of receipt, -20 to -70 °C as supplied.<br>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.<br>● 6 months, -20 to -70 °C under sterile conditions after reconstitution. |

## BACKGROUND

Peptidoglycan recognition protein intermediate β (PGRP-Iβ), also known as peptidoglycan recognition protein 4 (PGLRP4), belongs to the family of human recognition molecules that bind peptidoglycan (a ubiquitous component of bacterial cell walls) and gram-positive bacteria as part of the innate immune response. It has N-acetylmuramoyl-L-alanine amidase activity and is primarily expressed in the esophagus, where it is thought to play a role in host antimicrobial defense. PGRP-Iβ has two predicted transmembrane domains and extracellular N- and C-termini. The amino acid sequence of human PGRP- Iβ is 99% and 76% identical to that of chimpanzee and mouse.



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