

#### DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects human PGLYRP4/PGRP-I $\beta$ in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant mouse PGRP-I $\beta$ or recombinant human PGRP-S is observed.                                                             |
| <b>Source</b>             | Monoclonal Mouse IgG <sub>2B</sub> Clone # 474034                                                                                                                                                                                                                           |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | Mouse myeloma cell line NS0-derived recombinant human PGLYRP4/PGRP-I $\beta$<br>Asp18-His373<br>Accession # Q96LB8                                                                                                                                                          |
| <b>Conjugate</b>          | Alexa Fluor 594<br>Excitation Wavelength: 590 nm<br>Emission Wavelength: 617 nm                                                                                                                                                                                             |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

#### 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.

|                            |                                                                        |
|----------------------------|------------------------------------------------------------------------|
| <b>Western Blot</b>        | Optimal dilution of this antibody should be experimentally determined. |
| <b>Immunoprecipitation</b> | Optimal dilution of this antibody should be experimentally determined. |

#### PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied                          |

#### BACKGROUND

Peptidoglycan recognition protein intermediate  $\beta$  (PGRP-I $\beta$ ), 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-I $\beta$  has two predicted transmembrane domains and extracellular N- and C-termini. The amino acid sequence of human PGRP-I $\beta$  is 99% and 76% identical to that of chimpanzee and mouse.

#### PRODUCT SPECIFIC NOTICES

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