

## Product datasheet

### Anti-PGRPS antibody [188C424] ab13903

★★★★★ [1 Abreviews](#) [1 References](#) [2 Images](#)

#### Overview

|                            |   |
|----------------------------|---|
| <b>Product name</b>        | Anti-PGRPS antibody [188C424]   |
| <b>Description</b>         | Mouse monoclonal [188C424] to PGRPS   |
| <b>Host species</b>        | Mouse   |
| <b>Tested applications</b> | <b>Suitable for:</b> IHC-P, WB  |
| <b>Species reactivity</b>  | <b>Reacts with:</b> Human   |
| <b>Immunogen</b>           | Synthetic peptide: YVLKGHRDVQRTLSPG , corresponding to amino acids 165-180 of Human PGRPS.<br><a href="#">Run BLAST with Expasy</a> <a href="#">Run BLAST with NCBI</a>   |
| <b>Positive control</b>    | IHC: Human esophagus cells. WB: Jurkat cells.   |
| <b>General notes</b>       | <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p> |

#### Properties

|                             |  |
|-----------------------------|--|
| <b>Form</b>                 | Liquid   |
| <b>Storage instructions</b> | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. |
| <b>Storage buffer</b>       | Preservative: 0.05% Sodium azide<br>Constituents: PBS, 0.05% BSA   |
| <b>Purity</b>               | Protein G purified   |
| <b>Clonality</b>            | Monoclonal   |
| <b>Clone number</b>         | 188C424  |
| <b>Isotype</b>              | IgG1   |

#### Applications

## The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab13903 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes   |
|-------------|-----------|---|
| IHC-P       |           | Use a concentration of 20 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. |
| WB          |           | Use a concentration of 2 µg/ml. Predicted molecular weight: 22 kDa.   |

## Target

### Function

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.

### Tissue specificity

Highly expressed in bone marrow. Weak expression found in kidney, liver, small intestine, spleen, thymus, peripheral leukocyte, lung, fetal spleen and neutrophils.

### Sequence similarities

Belongs to the N-acetylmuramoyl-L-alanine amidase 2 family.

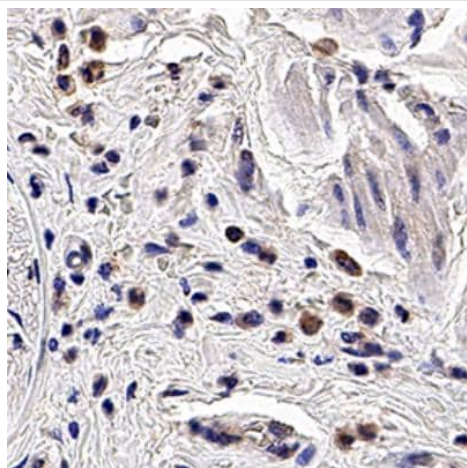
### Post-translational modifications

N-glycosylated. N-glycosylation is required for bactericidal activity.

### Cellular localization

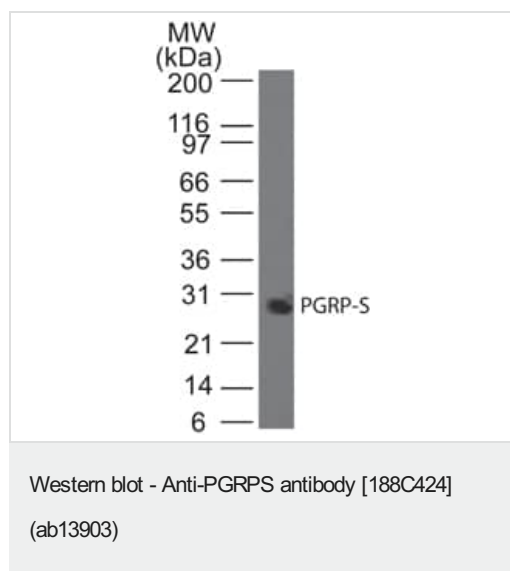
Secreted. Cytoplasmic granule.

## Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PGRPS antibody [188C424] (ab13903)

Immunocytochemistry analysis of human esophagus cells labelling PGRPS with ab13903 at 20 µg/mL. The assay involved 20 minutes of heat induced antigen retrieval (HIER) using 10mM sodium citrate buffer (pH 6.0) and endogenous peroxidase quenching with peroxide block. The sections were incubated with primary antibody for 30 minutes and Bond Polymer Refine Detection (Leica Biosystems) with DAB was used for signal development followed by counterstaining with hematoxylin. Whole slide scanning and capturing of representative images was performed using Aperio AT2 (Leica Biosystems). Staining of peripheral leukocytes and neutrophils was observed. Staining was performed by Histowiz.



Anti-PGRPS antibody [188C424] (ab13903) at 2 µg/ml + Jurkat cell lysate

**Predicted band size:** 22 kDa

**Observed band size:** 28 kDa

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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