

# Product Datasheet

## PGLYRP1/PGRP-S Antibody (188C424) - BSA Free NB100-56719

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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### Publications: 7

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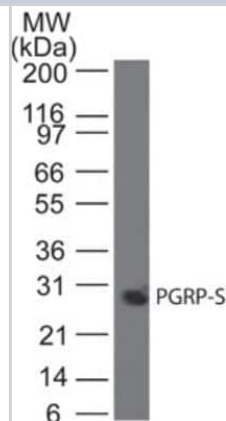
**NB100-56719**

PGLYRP1/PGRP-S Antibody (188C424) - BSA Free

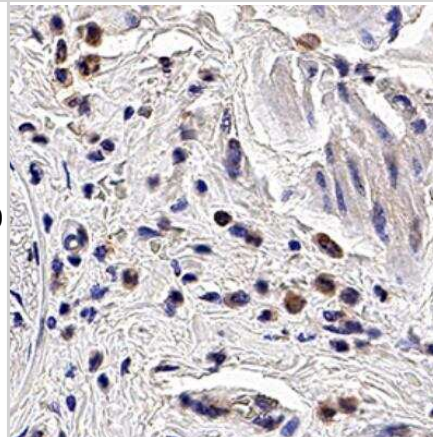
<b>Product Information</b>	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	1.0 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	188C424
<b>Preservative</b>	0.05% Sodium Azide
<b>Isotype</b>	IgG3 Kappa
<b>Purity</b>	Protein G purified
<b>Buffer</b>	PBS
<b>Target Molecular Weight</b>	21.73 kDa
<b>Product Description</b>	
<b>Description</b>	Novus Biologicals Mouse PGLYRP1/PGRP-S Antibody (188C424) - BSA Free (NB100-56719) is a monoclonal antibody validated for use in IHC, WB, Flow and ICC/IF. Anti-PGLYRP1/PGRP-S Antibody: Cited in 7 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Mouse
<b>Gene ID</b>	8993
<b>Gene Symbol</b>	PGLYRP1
<b>Species</b>	Human, Mouse
<b>Immunogen</b>	This antibody was developed against KLH-conjugated synthetic peptide corresponding to amino acids 165-180 (YVLKGHRDVQRTLSPG) of human PGRP-S (NP_005082).
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen
<b>Recommended Dilutions</b>	Western Blot 2 ug/ml, Flow Cytometry 1:20-1:2000, Immunohistochemistry 1:20-1:1000, Immunocytochemistry/ Immunofluorescence 1:20-1:1000. Use reported in scientific literature (Dukhanina et al (2009)), Immunohistochemistry-Paraffin 1:20 - 1:1000, Immunohistochemistry-Frozen reported in scientific literature (Onkelen et al (2012))
<b>Application Notes</b>	The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors.

## Images

Western Blot: PGLYRP1/PGRP-S Antibody (188C424) [NB100-56719] - Analysis using PGLYRP1/PGRP-S antibody. Lysate from human Jurkat cells probed with PGRP-S antibody at 2 ug/ml.



Immunohistochemistry-Paraffin: PGLYRP1/PGRP-S Antibody (188C424) [NB100-56719] - IHC analysis of formalin fixed paraffin-embedded (FFPE) human esophagus using PGLYRP1/PGRP-S antibody at 20 ug/ml on a Bond Rx autostainer (Leica Biosystems). 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.



## Publications

Bhusal, A;Kim, JH;Kim, SC;Hwang, EM;Ryu, H;Ali, MS;Park, SC;Lee, WH;Suk, K; The microglial innate immune protein PGLYRP1 mediates neuroinflammation and consequent behavioral changes *Cell reports* 2024-02-22 [PMID: 38393947]

Romanova EA, Sharapova TN, Telegin GB et al. A 12-mer Peptide of Tag7 (PGLYRP1) Forms a Cytotoxic Complex with Hsp70 and Inhibits TNF-Alpha Induced Cell Death *Cells* 2020-02-20 [PMID: 32093269] (ICC/IF, Mouse)

Dukhanina EA, Kabanova OD, Lukyanova TI et al. Opposite roles of metastasin (S100A4) in two potentially tumoricidal mechanisms involving human lymphocyte protein Tag7 and Hsp70. *Proc Natl Acad Sci U S A.* 2009-08-18 [PMID: 19666596] (Flow Cytometry Control, Human)

### Details:

CD4+CD25+ human PBMCs were used with the PGRP-S (Tag7) 188C424 antibody in the following assays: 1. Flow (Intracellular): Figs S2C, S2D 2. IF: Figs S2E, S3.

van Onkelen RS, Mitalas LE, Gosselink MP et al. Assessment of microbiota and peptidoglycan in perianal fistulas. *Diagn Microbiol Infect Dis.* 2013-01-01 [PMID: 23102557]

Uehara A, Sugawara Y, Kurata S et al. Chemically synthesized pathogen-associated molecular patterns increase the expression of peptidoglycan recognition proteins via toll-like receptors, NOD1 and NOD2 in human oral epithelial cells. *Cell Microbiol.* 2005-05-01 [PMID: 15839897] (Flow-CS, ICC/IF)

### Details:

Flow (cell surface): PGRP-1alpha (IMG-391), PGRP-1beta (IMG-414), and PGRP-S (IMG-393) were used in human oral epithelial (HSC-2) cell lines, Fig 3. IF/ICC: HSC-2 cells stimulated with or without lipid A, muramyl dipeptide (MDP), gamma-D-glutamyl-meso-DAP (iE-DAP), or IFN gamma then stained with PGRP-1beta (IMG-414), Fig 4.

Uehara A, Fujimoto Y, Fukase K, Takada H. Various human epithelial cells express functional Toll-like receptors, NOD1 and NOD2 to produce anti-microbial peptides, but not proinflammatory cytokines. *Mol Immunol.* 2007-05-01 [PMID: 17403538] (Flow-CS, Human)

### Details:

The following products were used in flow (cell surface): PGRP-1alpha (IMG-391), PGRP-1beta (IMG-414), PGRP-S (IMG-393). Human oral epithelial (HSC-2, HSC-3, SAS, & HO-1-u-1), human pharyngeal epithelial (HEp-2), human esophageal epithelial (TE-1), human b

Uehara A, Takada H. Synergism between TLRs and NOD1/2 in oral epithelial cells. *J Dent Res.* 2008-07-01 [PMID: 18573991] (Flow-CS)

### Details:

flow (cell surface): PGRP-1alpha (IMG-391), PGRP-1beta (IMG-414), PGRP-S (IMG-393). Oral epithelial HSC-2 cell line stimulated with Fk156 or muramyl dipeptide (MDP) plus FSL-1 and lipid A, Fig 1.



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### **Products Related to NB100-56719**

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NB820-59670	Mouse Spleen Whole Tissue Lysate (Adult Whole Normal)
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-96978	Mouse IgG3 Kappa Light Chain Isotype Control (MG3K)

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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