

Product Datasheet

PGLYRP3/PGRPIA Antibody (187C434) NB100-56729

Unit Size: 0.2 ml

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

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NB100-56729

PGLYRP3/PGRPIA Antibody (187C434)

Product Information	
Unit Size	0.2 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	187C434
Preservative	0.05% Sodium Azide
Isotype	IgM
Purity	Unpurified
Buffer	Ascites

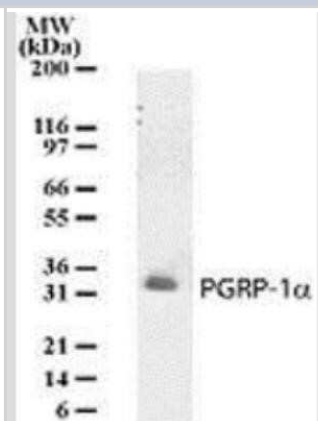
Product Description	
Host	Mouse
Gene ID	114771
Gene Symbol	PGLYRP3
Species	Human
Immunogen	This antibody was developed against KLH-conjugated synthetic peptide corresponding to amino acids 178-193 of human PGRP-1a.

Product Application Details	
Applications	Western Blot, Flow Cytometry, Flow (Cell Surface), Flow (Intracellular), Immunocytochemistry/ Immunofluorescence
Recommended Dilutions	Western Blot, Flow Cytometry 1:10-1:1000, Immunocytochemistry/ Immunofluorescence 1:10-1:2000. Use reported in scientific literature (Uehara et al (2005)), Flow (Cell Surface) reported in scientific literature (PMID 15839897), Flow (Intracellular) reported in scientific literature (PMID 16849490)

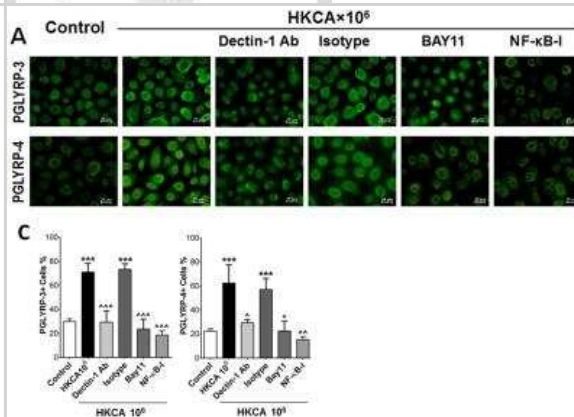


Images

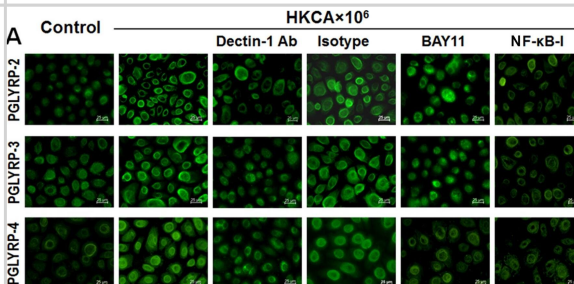
Western Blot: PGLYRP3/PGRPIA Antibody (187C434) [NB100-56729] - Analysis in cell lysates from human brain using this antibody at a dilution of 1:500.



Immunocytochemistry/Immunofluorescence: PGLYRP3/PGRPIA Antibody (187C434) [NB100-56729] - A. HCECs were exposed to HKCA (106 cells/ml) with prior incubation in the absence or presence of isotype IgG (10ug/ml), dectin-1 neutralizing Ab (10ug/ml), BAY11-7082 (10uM) or NF-κB activation inhibitor quinazoline (NF-κB-I, 10uM) for 1 h. HCECs were treated with 106 cells/ml HKCA for 48 hours in 8-chamber slides and examined by immunofluorescent staining for PGLYRPs 3 and 4. (NB100-56721) C. The percentages of positive cells of PGLYRPs 3 and 4 staining in HCECs in A was quantified. Results shown are the mean \pm SD of four independent experiments; *** $p < 0.001$, as compared with normal control; $\wedge p < 0.005$, $\wedge\wedge p < 0.001$, as compared with HCECs exposed to HKCA. Magnification: 400x (bar = 25um). Image collected and cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.pone.0128039>) licensed under a CC-BY license.



NF-κappaB p65 activation was induced by HKCA and inhibited by dectin-1 neutralizing antibody and NF-κappaB activation inhibitor quinazoline (NF-κappaB-I) in HCECs. A. HCECs were exposed to HKCA (106 cells/ml) with prior incubation in the absence or presence of isotype IgG (10ug/ml), dectin-1 neutralizing Ab (10ug/ml), BAY11-7082 (10uM) or NF-κappaB activation inhibitor quinazoline (NF-κappaB-I, 10uM) for 1 h. HCECs were treated with 106 cells/ml HKCA for 48 hours in 8-chamber slides and examined by immunofluorescent staining for PGLYRPs 2-4. Image collected and cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/26039076>), licensed under a CC-BY licence.



Publications

Hua X, Yuan X, Li Z et al. A Novel Innate Response of Human Corneal Epithelium to Heat-killed *Candida albicans* by Producing Peptidoglycan Recognition Proteins PLoS ONE. 2015-06-04 [PMID: 26039076] (ICC/IF, Human)

Details:

PGLYRP4/PGRP-I beta antibody (clone 186C426; Imgenex IMG-414) was used for ICC-IF staining on human corneal epithelial cells /HCECs that were incubated in the absence or presence of isotype IgG (10ug/ml), dectin-1 neutralizing Ab (10ug/ml), BAY11-7082 (10uM) or NF-kB activation inhibitor quinazoline (NF-kB-I, 10uM) for 1 h followed by 48 hours incubation of HKCA/heat-killed *Candida albicans* (10^6 cells/ml). The immunoassay implicated 10 minutes RT fixation with 2% PFA, 10 minutes RT permeabilization with PBS-0.2% Triton X-100, detection of primary using Alexa-Fluor 488 conjugated secondary antibody (Fig 4A).

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] (ICC/IF, Flow-CS)

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

Ma P, Wang Z, Pflugfelder SC, Li DQ. Toll-like receptors mediate induction of peptidoglycan recognition proteins in human corneal epithelial cells. *Exp Eye Res.* 2010-01-01 [PMID: 19799901] (ICC/IF, Human)

Details:

PGRP-1alpha (IMG-391) & PGRP-1beta (IMG-414). IF/ICC: Human corneoscleral tissue & primary cultured human corneal epithelial cells, Fig 1.

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.

Uehara A, Fujimoto Y, Kawasaki A et al. Meso-diaminopimelic acid and meso-lanthionine, amino acids specific to bacterial peptidoglycans, activate human epithelial cells through NOD1. *J Immunol.* 2006-08-01 [PMID: 16849490] (Flow Cytometry Control)

Details:

flow (Intracellular): PGRP-1alpha (IMG-391) & PGRP-1beta (IMG-414); Human oral epithelial (HSC-2) cell line, Fig 2.



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Products Related to NB100-56729

NB820-59177	Human Brain Whole Tissue Lysate (Adult Whole Normal)
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP2-62224	Mouse IgM Isotype Control (PFR-03)

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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