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Human PGLYRP1/PGRP-S Antibody

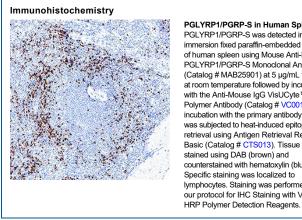
Monoclonal Mouse IgG2B Clone # 1040002 Catalog Number: MAB25901

DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects human PGLYRP1/PGRP-S in direct ELISAs.	
Source	Monoclonal Mouse IgG _{2B} Clone # 1040002	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	Mouse myeloma cell line NS0-derived human PGLYRP1/PGRP-S Gln22-Pro196 Accession # O75594	
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *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	
Immunohistochemistry	5-25 μg/mL	Immersion fixed paraffin-embedded	

DATA



PGLYRP1/PGRP-S in Human Spleen. PGLYRP1/PGRP-S was detected in immersion fixed paraffin-embedded sections of human spleen using Mouse Anti-Human PGLYRP1/PGRP-S Monoclonal Antibody (Catalog # MAB25901) at 5 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Mouse IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC001). Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was counterstained with hematoxylin (blue). lymphocytes. Staining was performed using our protocol for IHC Staining with VisUCyte

PREPARATION AND STORAGE 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. *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. 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution. •

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Human PGLYRP1/PGRP-S Antibody

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BACKGROUND

The human PGRP family is comprised of four peptidoglycan recognition proteins that may function as innate immunity pattern recognition molecules (1, 2). Termed PGRP-L, PGRP-I_β and PGRP-S, they are all products of separate genes, and all are named for the relative length of their translated product (3). PGRP-L (for long) is 576 amino acids (aa) in length, while PGRP-I_α and I_β are (1) intermediate in length at 341 aa and 373 aa, respectively, and PGRP-S is the shortest at 196 aa in length (3, 4). All human PGRPs bind peptidoglycan and Gram-positive bacteria, and all have at least three C-terminal PGRP domains at variable sites that are highly conserved from insects to mammals (3). Human PGRP-S, the first described member of the family, is a 28 kDa secreted glycoprotein associated with neutrophils (4). The mature molecule is 175 aa in length and contains three variably-sized peptide-carbohydrate recognition sequences of 15 aa, 29 aa and 49 aa, respectively. Human PGRP-S is 72%, 71% and 70% aa identical to mouse, bovine and rat mature PGRP-S, respectively. Studies with PGRP-S deficient mice indicate that knock-out mice have increased susceptibility to infections with non-pathogenic bacteria. Neutrophils from knock-out mice exhibit normal phagocytosis of bacteria but are defective in intracellular killing and digestion of nonpathogenic bacteria (5). The longer three PGRP members are all membrane-bound molecules that contain two membrane-spanning segments. Both the N- and C-termini are depicted as being extracellular with a joining cytoplasmic domain. All three transmembrane forms show at least one PGRP domain on the C-terminal extracellular region; other PGRP domains are variably distributed over their two extracellular and one cytoplasmic region (3).

References:

- 1. Girardin, S.E. and D.J. Philpott (2004) Eur. J. Immunol. 34:1777.
- 2. Steiner, H. (2004) Immunol. Rev. 198:83.
- 3. Liu, C. et al. (2001) J. Biol. Chem. 276:34686.
- 4. Kang, D. et al. (1998) Proc. Natl. Acad. Sci. USA 95:10078.
- 5. Dziarski, R. et al. (2003) Blood 102:689.

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