

Name of Journal: *World Journal of Gastroenterology*

Manuscript NO: 56040

Manuscript Type: ORIGINAL ARTICLE

Basic Study

P-selectin glycoprotein ligand 1 deficiency prevents the development of acute pancreatitis by attenuating the leukocyte infiltration

Zhang X *et al.* PSGL-1 deficiency prevents acute pancreatitis

Xu Zhang, Ming Zhu, Xiao-Liang Jiang, Xing Liu, Xue Liu, Pan Liu, Xian-Xian Wu, Zhi-Wei Yang, Tao Qin

Abstract

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TARGETING PSGL-1/P-SELECTIN INTERACTIONS AS A NOVEL ...

europepmc.org/articles/PMC5393932

May 01, 2017 · **PSGL-1/P-SELECTIN INTERACTIONS AS MEDIATORS OF OBESITY-INDUCED INFLAMMATORY RESPONSES.** **PSGL-1** is a glycoprotein that is expressed on the surface of all **leukocytes** and supports leukocyte recruitment as a component of a range of inflammatory responses [42–46].Structurally, **PSGL-1** is a membrane protein with a disulfide-linked ...

Cited by: 8

Author: Madhukar S. Patel, Madhukar S. Patel, ...

Publish Year: 2017

Targeting P-selectin glycoprotein ligand-1/P-selectin ...

<https://www.sciencedirect.com/science/article/pii/S1931524416303577>

In this regard, given that both animal models and human studies have demonstrated that the interaction of P-selectin glycoprotein ligand-1 (**PSGL-1**) with P-selectin is not only critical for normal immune response but also is upregulated in the setting of metabolic syndrome, **PSGL-1/P-selectin** interactions provide a novel target for preventing and ...

Cited by: 8

Author: Madhukar S. Patel, Madhukar S. Patel, ...

Publish Year: 2017

Redox signaling in acute pancreatitis - PubMed Central (PMC)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4360040>

Jan 27, 2015 · **Acute pancreatitis** is an inflammatory process of the pancreatic gland that eventually may lead to a severe systemic inflammatory response. A key event in pancreatic damage is the intracellular activation of NF-κB and zymogens, involving also calcium, cathepsins, pH disorders, autophagy, and cell death, particularly necrosis.

Cited by: 51

Author: Salvador Pérez, Javier Pereda, Luis Sab...

Publish Year: 2015

Pathophysiological role of platelets and platelet system ...

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P-selectin glycoprotein ligand-1 (Psgl-1) is an adhesive **ligand** expressed on leukocytes and endothelial cells, and Psgl-1 **deficiency** is associated with reduced **leukocyte** rolling and firm endothelial attachment 6,7. Since selectins may affect the phenotype of **the leukocyte** by initiating signaling cascades following binding to **leukocyte** Psgl-18 ...

Cited by: 21

Author: Wei Luo, Hui Wang, Miina K. Öhman, Chiao ...

Publish Year: 2012

[P-selectin glycoprotein ligand-1 deficiency leads to ...](https://www.sciencedirect.com/science/article/pii/S0021915011010021)

<https://www.sciencedirect.com/science/article/pii/S0021915011010021>

Jan 01, 2012 · **P-selectin glycoprotein ligand-1** (Psgl-1) is an adhesive **ligand** expressed on ... To investigate whether the effects of hematopoietic Psgl-1 were due to **acute** interactions with endothelial selectins or to other indirect effects of hematopoietic ... hematopoietic Psgl-1 **deficiency prevents** endothelial activation and reduces ...

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Author: Wei Luo, Hui Wang, Miina K. Öhman, Chiao ...

Publish Year: 2012

[P-selectin Glycoprotein Ligand-1 is needed for Sequential ...](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3262920)

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P-selectin glycoprotein ligand (PSGL)-1 is an adhesion molecule up-regulated in T cells under the



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P-selectin glycoprotein ligand-1 (Psgl-1) is an adhesive **ligand** expressed on leukocytes and endothelial cells, and Psgl-1 **deficiency** is associated with reduced **leukocyte** rolling and firm endothelial attachment 6,7. Since selectins may affect the phenotype of **the leukocyte** by initiating signaling cascades following binding to **leukocyte** Psgl-18 ...

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Publish Year: 2012

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P-selectin glycoprotein ligand (PSGL)-1 is an adhesion molecule up-regulated in T cells under the influence of the Th1 polarizing cytokine, IL-12 (18–20). Data from Granger and colleagues suggest that **P-selectin** but not E-selectin is expressed constitutively on endothelial cells throughout the intestine . As CD is a Th1-mediated inflammation ...

Cited by: 23 **Author:** Jeffrey B. Brown, Paul Cheresh, Zheng Z...

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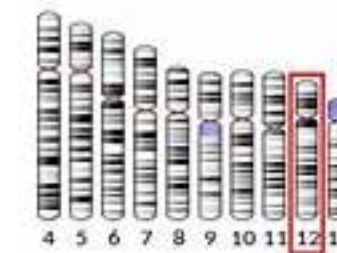
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Aug 29, 2011 · **P-selectin glycoprotein ligand** (PSGL)-1 is an adhesion molecule upregulated in T cells under the influence of the Th1 polarizing cytokine, interleukin (IL)-12. 18, – 20 Data from Granger and colleagues suggest that **P-selectin** but not E-selectin is expressed constitutively on endothelial cells

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3246103/> As CD is a Th1 ...

P-selectin Glycoprotein Ligand-1



Selectin P ligand, also known as SELPLG or CD162 (cluster of differentiation 162), is a human gene. SELPLG codes for PSGL-1, the high affinity counter-receptor for P-selectin on myeloid cells and stimulated T lymphocytes. As such, it plays a critical role in the tethering of these cells to activated platelets or endothelia expressing P-selectin.

Wikipedia

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