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S Hakomori, Y Igarashi - The journal of biochemistry, 1995 - academic.oup.com

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... These data suggest that S1P signaling in endothelial cells is under dynamic regulation at the ...
Moreover, laminar shear-stress treatment of vascular endothelial cells in culture down-regulated
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Bone marrow progenitor cells induce endothelial adherens junction integrity by sphingosine-1-phosphate-mediated Rac1 and Cdc42 signaling

YD Zhao, H Ohkawara, J Rehman, KK Wary... - Circulation ..., 2009 - Am Heart Assoc

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M Kucia, R Reca, K Miekus, J Wanzeck... - ... cells, 2005 - Wiley Online Library

... is growing evidence that SDF-1 plays a pivotal role in the regulation of trafficking ... Because
tumor progression, molecules generated during

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Name of Journal: *World Journal of Stem Cells*

Manuscript NO: 39573

Manuscript Type: MINIREVIEWS

Regulatory role of Sphingosine kinase and sphingosine-1-phosphate receptor signalling in progenitor/stem cells

Mei Li Ng, Mario Menschikowski, Nagendra S Yarla, Olga A Sukocheva

Abstract

Balanced sphingolipid signalling is important for maintenance of homeostasis. Sphingolipids were demonstrated to function as structural components, second messengers, and regulators of cell growth and survival in normal and disease-affected tissues. Particularly, Sphingosine kinase 1 (SphK1) and its product sphingosine-1-phosphate (S1P) operate as mediators and facilitators of proliferation-linked signalling. Unlimited proliferation (self-renewal) within the regulated environment is a hallmark of progenitor/stem cells that was recently associated with

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2013年11月4日 - S1P is the product of two sphingosine kinases (Sphk1 and Sphk2). ... Interestingly, signaling through the S1P2 receptor somewhat counterbalances the and lymphoid progenitors is orchestrated by the S1P–S1P receptor axes. S1P and C1P have emerged as important regulators of stem cell trafficking.

Sphingosine 1-Phosphate Receptor 1 Is Required for MMP-2 Function ...

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