

Name of Journal: *World Journal of Translational Medicine*

ESPS Manuscript NO: 20825

Manuscript Type: ORIGINAL ARTICLE

Basic Study

**p38 mitogen-activated protein kinase regulates type-I vs type-II phenotyping of human vascular endothelial cells**

Nakahara M *et al.* p38 MAPK controls vascular endothelial phenotypes

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#### Abstract

AIM: To identify kinases involved in phenotype regulation of vascular endothelial cells (VECs): pro-proliferative RGS5<sup>high</sup> (type-I) vs anti-proliferative RGS5<sup>low</sup> (type-II) VECs.

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## MAPK14 mitogen-activated protein kinase 14 [ (human)]

[www.ncbi.nlm.nih.gov/gene/1432](http://www.ncbi.nlm.nih.gov/gene/1432)

20 Jun 2015 ... Data suggest that p38 MAP kinase **regulates** c-Fos/**cellular** oncogene fos ... obese subjects. Treatment with MK2 **or** p38 inhibitors blocked **human** papillomavirus ... Activation of **p38 MAPK** in **endothelial cells** by von Willebrand factor is ... protein kinase-dependent mechanisms in male **type 2** diabetic mice.

## TGF- $\beta$ 1 INDUCES ENDOTHELIAL CELL APOPTOSIS BY SHIFTING ...

[www.ncbi.nlm.nih.gov/pmc/articles/PMC3356490/](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3356490/)

20 Apr 2012 ... Keywords: TGF- $\beta$ 1, VEGF, **p38<sup>MAPK</sup>** isoforms, **endothelial cells**, apoptosis ... **Human** purified **or** recombinant TGF- $\beta$ 1, recombinant **human** VEGF, and ... Collagen **type I** (Becton Dickinson, Bedford, MA), was placed into 24-well ..... beta 1 down-**regulates vascular endothelial** growth factor receptor **2/flk-1**....

## TGF- $\beta$ 1 Induces Endothelial Cell Apoptosis by Shifting VEGF ...

[mcr.aacrjournals.org/content/10/5/605.full](http://mcr.aacrjournals.org/content/10/5/605.full)

Numerous studies have implicated **p38<sup>MAPK</sup>** in induction of **endothelial cell** apoptosis by ... **Human** purified **or** recombinant TGF- $\beta$ 1, recombinant **human** VEGF, and ... Collagen **type I** (Becton Dickinson) was placed into 24-well tissue culture plates ..... beta 1 down-**regulates vascular endothelial** growth factor receptor **2/flk-1**....

## [PDF] Roles of p38 MAPKs in invasion and metastasis - Biochemical ...

[www-06.all-portland.net/bst/040/0079/0400079.pdf](http://www-06.all-portland.net/bst/040/0079/0400079.pdf)

(transforming growth factor  $\beta$ ), VEGF (**vascular endothelial** ... factor 6. uPA, urokinase-**type** plasminogen activator. VCAM-1, **vascular cell** adhesion ... org **or** angel.nebreda@irbbarcelona.org). ... **regulate** EMT, and **p38 MAPKs** are known to respond to ..... epithelial-mesenchymal transition **phenotype** in **human** breast cancer.

## [PDF] p38 MAPK in MMP-13 expression - Journal of Cell Science - The ...

[jcs.biologists.org/content/113/2/227.full.pdf](http://jcs.biologists.org/content/113/2/227.full.pdf)

components of the **human** connective tissues, the ability to degrade them is crucial for ... They all cleave **type I, II** and III collagens at a ... **regulated** kinase (ERK)1,2, Jun N-terminal kinase and **p38** ... of TNF- $\alpha$  **or** TGF- $\beta$  stimulated A-5 **cells** through **type I** collagen .... provide evidence that the invasive **phenotype** of transformed.

## [PDF] Sphingosine 1-phosphate **regulates** matrix metalloproteinase-9 ...

[www.ncbi.nlm.nih.gov/pmc/articles/PMC1432333/pdf/jbc2005110155.pdf](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1432333/pdf/jbc2005110155.pdf)



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## p38 mitogen-activated protein kinase is involved in arginase ...

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