



Article

Decellularized diaphragmatic muscle drives a constructive angiogenic response in vivo.

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Antibody	Dilution	Manufacturer
Laminin (Rabbit)	1:200	Sigma-Aldrich
α SMA (Mouse)	1:100	Abcam
CD31 (Rat)	1:100	Invitrogen
vWF (Rabbit)	1:200	Dako
CD68 (Rat)	1:100	Abcam
ArgI (Rabbit)	1:50	Thermo-Scientific
Anti-GFP-594	1:150	Life Technologies
Anti-Rabbit-488	1:200	Life Technologies
Anti-Rabbit-594	1:200	Life Technologies
Anti-Rat-568	1:200	Life Technologies
Anti-Mouse-488	1:200	Life Technologies
Anti-Mouse-596	1:200	Life Technologies

Table S1: Antibody list

Gene	NM_	FW primer	REV primer	Amplicon (bp)
<i>Flt1</i>	007482.3	AGACCACAGTCTGGCAGTTG G	AGGTTGCCCATGCAGATTCCC	136
<i>Il-6</i>	008656.5	ACAGCAGCTTTGACAGCATC	AAGCAATCCAAGCTGGACAC	85
<i>TNF</i>	001099635.1	AGGCCTTGTGCTTTCCCAGAG	GTTACAGCATGGTGAACCTG G	86
<i>Nos2</i>	010866.2	CGCTCCAACTGCTCTGATG	TAGTAGGCGGTGTCGTAGCC	86
<i>Arg1</i>	031189.2	GCAATGCACTGGAGTTTCG	ACGATGGACGTAAGGGAGTG	94
<i>CCL2</i>	010927.3	GCAGGTCTTTGACGCTCGGA	ATGGCCGACCTGATGTTGCC	105
<i>B2m</i>	009735.3	GCTTCAGTCGTCAGCATGG	CAGTTCAGTATGTTCGGCTTC C	149

Table S2: Primer list

	Native vs DD 7d	DD 7d vs DD 15d	Native vs DD 15d	Native vs ePTFE 7d	ePTFE 7d vs ePTFE 15d	Native vs ePTFE 15d	DD 7d vs ePTFE 7d	DD 15d vs ePTFE 15d	
ADAMTS1	***	***	***	***	***	***	*	***	ADAMTS1
Amphiregulin	***	***	ns	***	*	***	*	*	Amphiregulin
ANG	***	***	***	***	***	***	*	*	ANG
ANGPT-1	*	ns	***	***	***	***	*	*	ANGPT-1
ANGPT-3	***	***	***	***	ns	***	*	***	ANGPT-3
TF	***	***	***	***	***	***	*	*	TF
CXCL16	***	*	***	***	***	***	***	ns	CXCL16
CCN1	ns	*	***	***	***	***	***	***	CCN1
DLL4	*	*	*	***	***	***	***	***	DLL4
CD26	*	ns	***	***	***	***	ns	***	CD26
EGF	*	*	***	***	***	***	*	*	EGF
CD105	ns	ns	ns	ns	ns	ns	ns	***	CD105
Endostatin	***	***	ns	ns	***	***	*	***	Endostatin
ET-1	ns	ns	***	***	***	ns	*	ns	ET-1
FGF-1	ns	***	***	***	***	***	***	***	FGF-1
FGF-2	***	*	*	*	***	***	***	***	FGF-2
KGF	*	*	*	*	ns	ns	***	ns	KGF
Fractalkine	***	***	***	***	***	*	***	ns	Fractalkine
GM-CSF	***	***	***	***	***	***	ns	*	GM-CSF
HB-EGF	***	***	ns	***	***	***	***	***	HB-EGF
HGF	***	*	***	***	*	*	***	ns	HGF
IGFBP-1	***	*	***	*	*	*	*	ns	IGFBP-1
IGFBP-2	***	***	***	***	***	***	***	*	IGFBP-2
IGFBP-3	***	***	*	***	***	***	***	***	IGFBP-3
IL-1a	***	***	***	***	***	***	***	***	IL-1a
IL-1b	***	ns	ns	***	*	***	*	ns	IL-1b
IL-10	ns	ns	ns	***	*	*	*	*	IL-10
CXCL10	***	*	***	***	***	***	***	***	CXCL10
CXCL1	***	*	***	***	***	***	***	***	CXCL1
Leptin	***	ns	*	***	*	***	***	ns	Leptin
CCL2	***	*	***	***	***	***	***	ns	CCL2
CCL3	***	*	*	***	***	*	***	ns	CCL3
MMP-3	***	***	***	***	ns	***	ns	***	MMP-3
MMP-8	***	*	***	***	***	***	***	***	MMP-8
MMP-9	***	***	***	***	*	***	ns	***	MMP-9
NOV	***	***	***	***	*	***	*	***	NOV
OPN	***	***	***	***	ns	***	***	***	OPN
PD-ECGF	***	*	*	ns	ns	*	ns	ns	PD-ECGF
PDGF-AA	ns	***	***	*	ns	ns	*	*	PDGF-AA
PDGF-BB	***	*	*	***	***	*	***	ns	PDGF-BB
PTX-3	***	ns	***	***	***	***	***	*	PTX-3
CXCL4	ns	ns	***	ns	ns	ns	ns	*	CXCL4
PIGF-2	***	*	*	***	***	*	*	ns	PIGF-2
Prolactin	***	ns	***	***	***	***	*	***	Prolactin
Proliferin	***	*	***	***	ns	*	ns	ns	Proliferin
SDF-1	*	ns	ns	***	***	***	***	*	SDF-1
PAI-1	***	***	***	***	***	***	***	*	PAI-1
PEDF	***	***	ns	*	***	***	***	***	PEDF
TSP-2	***	***	***	***	***	***	***	ns	TSP-2
TIMP-1	***	***	***	***	***	***	***	***	TIMP-1
TIMP-4	***	ns	*	***	*	*	*	ns	TIMP-4
VEGF	***	ns	***	***	ns	*	*	*	VEGF
VEGF-B	***	*	***	***	***	***	***	*	VEGF-B

ns

P > 0.05

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P ≤ 0.05

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P ≤ 0.01

P ≤ 0.001

Table S3: Statistical analysis