

Immunomagnetic Isolation of the Vascular Wall-Resident CD34⁺ Stem Cells from Mice

 Chuting Han¹, Cheng Xie¹, Qingya Dang¹, Xiaolin Zhang¹, Chunshu Li¹, Yan Yang¹, Jun Cheng¹, Pengyun Li¹
¹Key Laboratory of Medical Electrophysiology of Ministry of Education and Medical Electrophysiological Key Laboratory of Sichuan Province, Institute of Cardiovascular Research, Southwest Medical University

Corresponding Authors

Jun Cheng

zcj1221@swmu.edu.cn

Pengyun Li

lpyun@swmu.edu.cn

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Materials

Name	Company	Catalog Number	Comments
2% gelatin solution	Sigma	G1393	
Anti-CD31 antibody	R&D	AF3628	
Anti-CD34 antibody	Abcam	ab81289	
Anti-c-kit antibody	CST	77522	
Anti-FITC MicroBeads	Miltenyi Biotec	130-048-701	
Anti-FITC MicroBeads MACS	Miltenyi Biotec	130-048-701	
Anti-Flk- 1 antibody	Abcam	ab24313	
Anti-Ki67 antibody	CST	34330	
Anti-PDGFR α antibody	Abcam	ab131591	
Anti-Sca- 1 antibody	Invitrogen	710952	
CD140a (PDGFRA) Monoclonal Antibody (APA5), FITC	eBioscience Invitrogen	11-1401-82	
CD31 (PECAM-1) Monoclonal Antibody (390), APC	eBioscience Invitrogen	17-0311-82	
CD34 Antibody, anti-mouse, FITC, REAfinity Clone REA383	Miltenyi Biotec	130-117-775	
cell culture hood	JIANGSU SUJING GROUP CO.,LTD	SW-CJ-2FD	
Centrifuge	CENCE	L530	
CO ₂ incubators	ThermoFisher Scientific	4111	
Confocal laser scanning microscope	Zeiss	zeiss 980	
DMEM High Glucose Medium	ATCC	30-2002	
EBM-2 culture medium	Lonza	CC-3162	
FACSMelody	BD Biosciences		
FACSMelody™ System	BD		
Fetal bovine serum	Millipore	ES-009-C	
FM-2 culture medium	ScienCell	2331	
Fura-2/AM	Invitrogen	M1292	

Goat anti-Rabbit IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor Plus 488	Thermofisher Scientific	A32731	
Leukemia inhibitory factor	Millipore	LIF2010	
Microscope	Olympus	IX71	
MiniMACS Starting Kit	Miltenyi Biotec	130-090-312	
Penicillin-Streptomycin-Amphotericin B Solution	Beyotime	C0224	
Purified Rat Anti-Mouse CD16/CD32 (Mouse BD Fc Block)	BD Pharmingen	553141	
Stereo Microscope	Olympus	SZX10	
TILLvisION 4.0 program	T.I.L.L.Photonics GmbH	polychrome V	
VWF Monoclonal Antibody (F8/86)	Thermofisher Scientific	MA5-14029	
β -Mercaptoethanol	Thermofisher Scientific	21985023	