

**Materials List for  
An In Vitro Method for the Differentiation of Megakaryocytes and Platelet  
Formation**

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**Materials**

Name	Company	Catalog Number	Comments
<b>Cell Culture Reagents</b>			
Recombinant Human TPO	Miltenyi Biotec	130-094-013	
StemSpan SFEM II	Stem Cell Technologies	9605	Serum-free media for CD34+ cells
<b>Flow Cytometry and Cell Staining Reagents</b>			
PE Mouse anti-Human CD34	BD Biosciences	340669	Clone 8G12. This can be used for CD34 purity check. Final antibody concentration 1:10 dilution.
PerCP mouse anti-human CD45	BD Biosciences	347464	1:10 dilution
PerCP isotype control	BD Biosciences	349044	1:10 dilution
FITC Mouse anti-Human CD41a	BD Biosciences	340929	Final antibody concentration 1:5 dilution.
APC Mouse anti-Human CD42b	BD Biosciences	551061	This antibody can also be used to detect mature MK (the percentage of positive cells is usually lower than with anti CD42a). Final antibody concentration 1:10 dilution.
Alexa Fluor 647 Mouse anti-Human CD42a	AbD Serotec	MCA1227A647T	Currently distributed by Bio-Rad. Final antibody concentration 1:10 dilution.
Alexa Fluor 647 Mouse Negative Control	AbD Serotec	MCA928A647	Currently distributed by Bio-Rad. Isotype control antibody
Anti von Willebrand factor rabbit polyclonal	Abcam	AB6994	1:200 dilution
V450 mouse anti-human CD41a	BD Biosciences	58425	1: 20 dilution
V450 isotype control	BD Biosciences	580373	1:20 dilution
PAC1-FITC antibody	BD Biosciences	340507	1:10 dilution
Anti CD62p mouse monoclonal	Abcam	AB6632	1:200 dilution
Alexa Fluor 488 goat anti rabbit IgG	Invitrogen	A11008	1:100 dilution
Alexa Fluor 594 goat anti mouse IgG	Invitrogen	A11020	1:100 dilution
Ig Isotype Control cocktail-C	BD Biosciences	558659	Isotype control antibody
Propidium iodide	Sigma Aldrich	P4864	
CountBright Absolute Counting Beads	Molecular Probes, Invitrogen	C36950	Counting beads
<b>Materials</b>			
Falcon 5mL round bottom polypropylene FACS tubes, with Snap Cap, Sterile	In Vitro technologies	352063	

Glass slides	Menzel-Glaser	J3800AMNZ	
Mounting media with DAPI	Vector Laboratories	H-1200	Antifade mounting medium with DAPI
<b>Equipment</b>			
Inverted microscope	Leica	DMIRB inverted microscope	
Fluorescent microscope	Zeiss	Vert.A1	
Cell analyser	BD Biosciences	FACS Canto II	
Cytospin centrifuge	ThermoScientific	Cytospin 4	
<b>Software</b>			
Cell analyser software	BD Biosciences	FACS Diva Software	
Single cell analysis software	Tree Star	FlowJo	
Fluorescent microscope software	Zeiss	Zen 2 blue edition	