

Materials List for

Single Extracellular Vesicle Transmembrane Protein Characterization by Nano-Flow Cytometry

Rebecca Lees^{*1}, Robert Tempest^{*1}, Alice Law^{*1}, Dimitri Aubert^{*1}, Owen G. Davies^{*2}, Soraya Williams^{*2}, Nick Peake^{*3}, Ben Peacock^{*1}

¹NanoFCM Co., Ltd ²School of Sport, Exercise and Health Sciences, Loughborough University ³Biomolecular Sciences Research Centre, Sheffield Hallam University

*These authors contributed equally

Corresponding Author

Ben Peacock

Bpeacock@nanofcm.com

Citation

Lees, R., Tempest, R., Law, A., Aubert, D., Davies, O.G., Williams, S., Peake, N., Peacock, B. Single Extracellular Vesicle Transmembrane Protein Characterization by Nano-Flow Cytometry. *J. Vis. Exp.* (185), e64020, doi:10.3791/64020 (2022).

Date Published

July 26, 2022

DOI

10.3791/64020

URL

jove.com/video/64020

Materials

Name	Company	Catalog Number	Comments
APC Anti-CD81 antibody (M38)	abcam	ab233259	Anti-Human CD81 APC conjugated antibody
APC Anti-CD9 antibody (EM-04)	Abcam	ab82392	Anti-mouse CD9 APC conjugated antibody
APC Anti-CD9 antibody (MEM-61), prediluted	abcam	ab82389	Anti-Human CD9 APC conjugated antibody
APC anti-mouse CD63 antibody	biolegend	143905	Anti-Mouse CD63 APC conjugated antibody
APC anti-mouse/rat CD81 antibody	biolegend	104909	Anti-Mouse CD81 APC conjugated antibody
CD63 monoclonal antibody (MEM-259), APC	invitrogen Via Fisherscientific	A15712	Anti-Human CD63 APC conjugated antibody
Celline AD1000 bioreactor	Merck	Z688037-5EA	
Cleaning solution	NanoFCM	17159	In house cleaning solution for nanoanalyser
EVs from C2C12	Gifted		Mouse line
EVs from SW620	Gifted		Human line
Memglow - Fluorogenic Membrane Probe	Cytoskeleton	MG01	non toxic cell membrane dye
NanoAnalyzer	NanoFCM		nano-flow cytometer for measurement of single particles
PBS, pH 7.2	Gibco Via Fisherscientific	12549079	Salt solution for dilution of samples and antibodies
Snaplock Microtubes, 0.60mL	Axygen Via Fisherscientific	11371944	Tubes required to load sample into nanoanalyser