

Materials List for

Visualization of Caspase Activation in Human Monocyte-Derived Macrophages

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URL: <https://www.jove.com/video/21616>

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Materials

Name	Company	Catalog Number	Comments
48-well tissue culture 2:34 plates	Genesee Scientific	25-108	
10 cm Tissue Culture Dishes	VWR	25382-166	
2 Mercaptoethanol 1000x	Thermo Fisher Scientific	21985023	
8-well chambered coverglass with 1.5 HP coverglass	Cellvis	c8-1.5H-N	
AutoMACS columns	Miltenyi (Biotec)	130-021-101	For automated separation using AutoMACS Pro Separator only
AutoMACS Pro Separator	Miltenyi (Biotec)	130-092-545	For automated separation using AutoMACS Pro Separator only
AutoMACS Pro Washing Solution	Miltenyi (Biotec)	130-092-987	For automated separation using AutoMACS Pro Separator only
AutoMACS Rinsing Solution	Miltenyi (Biotec)	130-091-222	For automated separation using AutoMACS Pro Separator only
AutoMacs running buffer	Miltenyi (Biotec)	130-091-221	For manual or automated separation using QuadroMACS or AutoMACS pro Separator
Axio Observer Z1 motorized inverted microscope equipped with a CSU-X1A 5000 spinning disk unit	Zeiss		Any confocal microscope equipped with a laser module fitted with laser lines of 568 nm (RFP) and 488 or 512 nm (GFP or YFP) wavelengths can be used
AxioObserver A1, Research-Grade Inverted Microscope	Zeiss		Any epifluorescence microscope with fluorescence filters capable of exciting 568 nm (RFP) and 488 or 512 nm (GFP or YFP) wavelengths can be used
CD14+ MICROBEADS	Miltenyi (Biotec)	130-050-201	For manual or automated separation using QuadroMACS or AutoMACS pro Separator
DPBS without calcium chloride and magnesium chloride	Sigma	D8537-6x500ML	
DsRed mito plasmid	Clontech	632421	Similar plasmids that can be used as fluorescent reporters can be found on Addgene
Fetal Bovine Serum	Thermo Fisher Scientific	10437028	
Ficoll-Paque PLUS 6 x 100 mL	Sigma	GE17-1440-02	
GlutaMAX Supplement (100x)	Thermo Fisher Scientific	35050079	
GM-CSF	Thermo Fisher Scientific	PHC2011	
Hemin BioXtra, from Porcine, ≥96.0% (HPLC)	Sigma	51280-1G	
HEPES	Thermo Fisher Scientific	15630106	
Inflammatory caspase BiFC plasmids			Available by request from LBH lab
LPS-EB Ultrapure	Invivogen	TLRL-3PELPS	

LS Columns	Miltenyi (Biotec)	130-042-401	For manual separation using QuadroMACS Separator only
MACS 15 mL Tube Rack	Miltenyi (Biotec)	130-091-052	For manual separation using QuadroMACS Separator only
MACS MultiStand	Miltenyi (Biotec)	130-042-303	For manual separation using QuadroMACS Separator only
mCherry plasmid	Yungpeng Wang Lab		Similar plasmids that can be used as fluorescent reporters can be found on Addgene
Neon Transfection System	Thermo Fisher Scientific	MPK5000	Includes Neon electroporation device, pipette and pipette station
Neon Transfection System 10 μ L Kit	Thermo Fisher Scientific	MPK1096	Includes resuspension buffer R, resuspension buffer T, electrolytic buffer E, 96 x 10 μ L Neon tips and Neon electroporation tubes
Nigericin sodium salt, ready made solution	Sigma	SML1779-1ML	
Penicillin-Streptomycin (10,000 U/mL)	Thermo Fisher Scientific	15140122	
Poly-D-Lysine Hydrobromide	Sigma	P7280-5mg	
QuadroMACS Separator	Miltenyi (Biotec)	130-090-976	For manual separation using QuadroMACS Separator only
qVD-OPh	Fisher (ApexBio)	50-101-3172	
RPMI 1640 Medium	Thermo Fisher Scientific	11875119	
Trypsin-EDTA (0.25%), phenol red	Thermo Fisher Scientific	25200072	
UltraPure 0.5 M EDTA, pH 8.0	Thermo Fisher Scientific	15575020	