

Materials List for:

Light-sheet Microscopy for Three-dimensional Visualization of Human Immune Cells

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Materials

Name	Company	Catalog Number	Comments
Fibrinol, bovine collagen solution	Advanced Biomatrix	#5133-20ML	Collagen matrix
0.5 M NaOH Solution	Merck	1091381000	for neutralizing Fibrinol solution
Ultra-Low melting agarose	Affymetrix	32821-10GM	Sample preparation in low c[Col]
Dynabeads Untouched Human CD8 T Cells Kit	Thermo Fisher	11348D	Isolation of primary human CD8 ⁺ T cells from PBMC
Dynabeads Human T-Activator CD3/CD28 for T Cell Expansion and Activation	Thermo Fisher	11132D	Activation of CTL populations
Human recombinant interleukin-2	Thermo Fisher	PHC0023	Stimulation of cultured CTL
P3 Primary solution kit	Lonza	V4XP-30XX	Transfection
α-PFN1 antibody, rabbit, IgG	Abcam	ab124904	IF
Alexa Fluor 633 Phalloidin	Thermo Fisher	A22284	IF
CellMask Orange Plasma membrane Stain	Thermo Fisher	C10045	Fluorescent cell label
Tween 20	Sigma	P1379-250mL	IF
Triton X-100	Eurobio	018774	IF
DPBS Dulbecco's phosphate buffered saline	Thermo Fisher	14190250	IF
Bovine serum albumin	Sigma	A9418-100G	IF
Goat α Rabbit 568, IgG, rabbit	Thermo Fisher	A-11011	IF
Lightsheet Z.1 (Light-sheet microscopy)	Zeiss	N.A.	
Cell culture hood	Thermo Fisher	HeraSafe KS	
Cell culture incubator HERACell 150i	Thermo Fisher	N.A.	
Centrifuge 5418 and 5452	Eppendorf	N.A.	
Pipettes	Eppendorf	3123000039, 3123000020, 3123000063	
Pipette tips	VWR	89079-444, 89079-436, 89079-452	
15 mL tubes	Sarstedt	62.554.002	
Capillaries 50 µL	VWR (Brand)	613-3373	Zeiss LSM sample preparation
Plunger for capillaries	VWR (Brand)	BRND701934	"Stamps with Teflon tip" LSM sample preparation
MColorPhast pH strips	Merck	1095430001	to test pH of neutralized Fibrinol
BD Plastipak 1mL syringes	BD	Z230723 ALDRICH	Alternative sample preparation

Modeling clay (Hasbro Play-Doh A5417EU7)	Play-Doh	N.A.	
Imaris file converter	Bitplane	available at http://www.bitplane.com	Convert imaging files to Imaris file format
Imaris 8.1.2 (MeasurementPro, Track, Vantage)	Bitplane	available at http://www.bitplane.com	Analysis of 3D and 4D imaging data