

Materials List for

Co-Culture of Murine Small Intestine Epithelial Organoids with Innate Lymphoid Cells

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Materials

Name	Company	Catalog Number	Comments
Reagents			
2-Mercaptoethanol	Gibco	21985023	
Anti-mouse CD45 (BV510)	BioLegend	103137	
Anti-mouse NK1.1 (PE)	Thermo Fisher Scientific	12-5941-83	
B-27 Supplement (50X), serum free	Gibco	17504044	
CD127 Monoclonal Antibody (APC)	Thermo Fisher Scientific	17-1271-82	
CD19 Monoclonal Antibody (eFluor 450)	Thermo Fisher Scientific	48-0193-82	
CD3e Monoclonal Antibody (eFluor 450)	Thermo Fisher Scientific	48-0051-82	
CD5 Monoclonal Antibody (eFluor 450)	Thermo Fisher Scientific	48-0031-82	
CHIR99021	Tocris	4423/10	
COLLAGENASE D, 500MG	Merck	11088866001	
Cultrex HA- RSpondin1-Fc HEK293T Cells	Cell line was used to harvest conditioned RSpondin1 supernatant, the cell line and Materials Transfer Agreement was provided by the Board of Trustees of the Lelands Stanford Junior University (Calvin Kuo, MD, PhD, Stanford University)		
DISPASE II (NEUTRAL PROTEASE, GRADE II)	Merck	4942078001	
DMEM/F12 (1:1) (1X) Dulbecco's Modified Eagle Medium Nutrient Mixture F-12 (Advanced DMEM/F12)	Gibco	11320033	
DNASE I, GRADE II	Merck	10104159001	
Dulbecco's Modified Eagle Medium (1X)	Gibco	21969-035	
Ethilenediamine Tetraacetate Acid	Thermo Fisher Scientific	BP2482-100	

FC block	2B Scientific	BE0307	
Fetal Bovine Serum, qualified, heat inactivated	Gibco	10500064	
GlutaMAX (100X)	Gibco	3050-038	
Hanks' Balanced Salt Solution (10X)	Gibco	14065056	
HBSS (1X)	Gibco	12549069	
HEK-293T- mNoggin-Fc Cells	Cell line was used to harvest conditioned Noggin supernatant, cell line acquired through Materials Transfer Agreement with the Hubrecht Institute, Uppsalalaan8, 3584 CT Utrecht, The Netherlands, and is based on the publication by Farin, Van Es, and Clevers Gastroenterology (2012).		
HEPES Buffer Solution (1M)	Gibco	15630-056	
KLRG1 Monoclonal Antibody (PerCP eFluor-710)	Thermo Fisher Scientific	46-5893-82	
Live/Dead Fixable Blue Dead Cell Stain Kit, for UV excitation	Thermo Fisher Scientific	L23105	
Ly-6G/Ly-6C Monoclonal Antibody (eFluor 450)	Thermo Fisher Scientific	48-5931-82	
Matrigel Growth Factor Reduced Basement Membrane Matrix, Phenol Red-free, LDEV-free	Corning	356231	
N-2 Supplement (100X)	Gibco	17502048	
N-acetylcysteine (500mM)	Merck	A9165	
NKp46 Monoclonal Antibody (PE Cyanine7)	Thermo Fisher	25-3351-82	
PBS (1 X) 7.2 pH	Thermo Fisher Scientific	12549079	
PBS (10X)	Gibco	70013032	
Percoll	Cytiva	17089101	
Recombinant Human EGF, Animal-Free Protein	R&D Systems	AFL236	
Recombinant Human IL-15 GMP Protein, CF	R&D Systems	247-GMP	
Recombinant Human IL-2 (carrier free)	BioLegend	589106	
Recombinant Mouse IL-7 (carrier free)	R&D Systems	407-ML-005/CF	
UltraComp eBeads	Thermo Fisher Scientific	01-2222-42	
Y-27632 dihydrochloride (ROCK inhibitor)	Bio-technie	1254	
Plastics			
50 mL tube	Falcon	10788561	
1.5 mL tube	Eppendorf	30121023	
10 mL pippette	StarLab	E4860-0010	
15 mL tube	Falcon	11507411	
25 mL pippette	StarLab	E4860-0025	
p10 pippette tips	StarLab	S1121-3810-C	
p1000 pippette tips	StarLab	I1026-7810	
p200 pippette tips	StarLab	E1011-0921	
Standard tissue culture treated 24-well plate	Falcon	353047	
Equipment			

Centrifuge	Eppendorf	5810 R	
CO2 and temperature controlled incubator	Eppendorf	Galaxy 170 R/S	
Flow Assisted Cellular Sorter	BD equipment	FACS Aria II	
Heated shaker	Stuart Equipment	SI500	
Ice box	-	-	
Inverted light microscope	Thermo Fisher Scientific	EVOS XL Core Imaging System (AMEX1000)	
p10 pipette	Eppendorf	3124000016	
p1000 pipette	Eppendorf	3124000063	
p200 pipette	Eppendorf	3124000032	
Pipette gun	Eppendorf	4430000018	
Wet ice	-	-	