

Materials List for:

Immuno-fluorescent Labeling of Microtubules and Centrosomal Proteins in *Ex Vivo* Intestinal Tissue and 3D *In Vitro* Intestinal Organoids

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Materials

Name	Company	Catalog Number	Comments
Dulbecco's Phosphate Buffered Saline (PBS)	Sigma	D8537-500ML	washing and PFA
Cell Recovery Solution	Corning	354253	isolate organoids
lobind microcentrifuge tubes	Eppendorf	30108116	prevent cells sticking
0.5 M EDTA solution, pH 8.0	Sigma	03690-100ML	Crypt isolation
70 µm cell strainer	Fisher Scientific	11517532	Isolate crypts from villi
Triton X-100	Sigma	T8787	detergent
goat serum	Sigma	G6767	blocking agent
Fetal Bovine Serum (FBS)	Sigma		used as non-stick agent
Paraformaldehyde, 4% in PBS	Alfa Aesar	J61899	fixative
Formaldehyde solution (36.5–38% in H ₂ O)	Sigma	F8775	used as fixative
Methanol 99.9% Analytical grade	Fisher	M/4000/17	used as fixative
MaxFluor Mouse on Mouse Immunofluorescence Detection Kit	Maxvision Biosciences	MF01-S	commercial immunofluorescence kit; to reduce non-specific labelling
Rotator SB2 or SB3	Stuart		microcentrifuge tube rotator
Sodium citrate			antigen retrieval
Hydromount	National Diagnostics	HS-106	mountant
DABCO - 1,4-diazabicyclo[2.2.2]octane	Sigma	D27802	anti-fade agent
Permanent Positive Charged, Pre-Washed, 90 Degree Ground Edges	Clarity	N/C366	slides
Glass coverslip - thickness no. 1, 22 x 50 mm	Clarity	NQS13/2250	coverslips
Matrigel	Corning	356231	Basement matrix for 3D organoid culture
50 mL conical tubes	Sarstedt	62.547.254	for processing tissue/organoids
15 mL conical tubes	Sarstedt	62.554.502	for processing tissue/organoids
1.5 mL LoBind tubes	Eppendorf	30108051	for isolated organoids
Mouse monoclonal anti-E-cadherin antibody	BD Biosciences	610181	primary antibody 1:500
Rat monoclonal anti-tubulin YL1/2 antibody	Abcam	ab6160	primary antibody 1:100
Rabbit alpha-tubulin antibody	Abcam	ab15246	primary antibody 1:100
Rabbit anti-beta-actin antibody	Abcam	ab8227	primary antibody 1:100

Rat monoclonal anti-p150Glued antibody	BD Bioscience	610473/4	primary antibody 1:100
Rat monoclonal EB3KT36 antibody	Abcam	ab53360	primary antibody 1:200
Mouse monoclonal EB1 antibody	BD Bioscience	610535	primary antibody 1:200
Rabbit anti-Lgr5 antibody	Abgent	AP2745d	primary antibody 1:100
Dylight anti-rat 488	Jackson	112545167	seconday antibody 1:400
Dylight anti-mouse 488	Jackson	ST115545166	seconday antibody 1:400
Dylight anti-rabbit 647	Jackson	111605144	seconday antibody 1:400