

Materials List for:

# A Mimic of the Tumor Microenvironment: A Simple Method for Generating Enriched Cell Populations and Investigating Intercellular Communication

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## Materials

Name	Company	Catalog Number	Comments
<b>For Cell Culture</b>			
AG01522 ( <i>i.e.</i> , AG1522) human diploid fibroblast	Coriell	107661	Passage 8-13
MDA-MB-231-luc-D3H1 breast adenocarcinoma cell line	PerkinElmer	119261	Parental line: ATCC (#HTB-26)
MDA-MB-231/GFP breast adenocarcinoma cell line	Cell Biolabs	AKR-201	
Eagle's minimal essential medium (MEM)	Corning Cellgro	15-010-CV	
Fetal Bovine Serum (FBS), Qualified	Sigma	F6178-500mL	
Corning GlutaGro Supplement (200 mM L-alanyl-L-glutamine)	Corning Cellgro	25-015-CI	
Penicillin Streptomycin Solution, 100x	Corning Cellgro	30-002-CI	
Transwell Insert ( <i>i.e.</i> , permeable microporous membrane insert) (0.4 μm pore)	Costar	3450	
Transwell Insert ( <i>i.e.</i> , permeable microporous membrane insert) (1 μm pore)	Greiner bio-one	657610	
Transwell Insert ( <i>i.e.</i> , permeable microporous membrane insert) (3 μm pore)	Costar	3452	
6-well Culture Plate	Greiner Bio-One Cellstar	657160-01	
75 cm <sup>2</sup> cell culture flask	CellStar	658 170	
Phosphate-Buffered Saline (PBS), 1x	Corning Cellgro	21-040-CV	without calcium & magnesium
0.25% (vol/vol) Trypsin, 2.21 mM EDTA, 1x	Corning Cellgro	25-053-CI	
15 ml Centrifuge Tube	CellTreat	229411	
35 mm x 10 mm Cell Culture Dish	Greiner bio-one	627 160	
<b>Name</b>			
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<b>Comments</b>			
<b>For Immunofluorescent Microscopy</b>			
Mouse anti-Caveolin 1	BD Transduction Laboratories	610406	<i>In situ</i> Immunofluorescence - 1:5,000
Goat anti-Mouse IgG (H+L) Secondary Antibody, Alexa Fluor 488 conjugate	ThermoFisher Scientific	A-11029	<i>In situ</i> Immunofluorescence - 1:2,000

Bovine Serum Albumin - Fraction V	Rockland	BSA-50	Immunoglobulin and protease free
16% (wt/vol) Formaldehyde Solution	ThermoFisher Scientific	28908	Dilute to 4% with 1x PBS
Premium Cover Glass (22 mm x 22 mm No.1)	Fisher	12548B	
Triton X-100	Sigma	T8787-50ML	
SlowFade Gold antifade reagent with DAPI	Invitrogen	S36938	
<b>Name</b>	<b>Company</b>	<b>Catalog Number</b>	<b>Comments</b>
<b>For Flow Cytometric Analysis</b>			
Calcein, AM	Molecular Probes	C3100MP	
Hanks' Balanced Salt Solution (HBSS)	Gibco	14025-076	
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<b>For Western Blot Analysis</b>			
Mouse anti-Caveolin 1	BD Transduction Laboratories	610406	Western Blot - 1:1,000
Tween-20	BioRad	170-6531	
Nitrocellulose Membrane (0.2 µm)	BioRad	162-0112	
Western Lightning Plus-ECL	PerkinElmer	NEL104001EA	
BioRad DC Protein Assay	BioRad	500-0116	
Sodium dodecyl sulfate (SDS)	BioRad	161-0302	
Sodium deoxycholate monohydrate (DOC)	Sigma	D5670	
IGEPAL CA-630 (NP40)	Sigma	I8896	
30% Acrylamide/Bis Solution, 37.5:1	BioRad	161-0158	