

Table S1. Key Resources Table

Reagent/Resource	Label	Identifier
Chemical, enzymes, and other reagents		
Advanced DMEM/F12	PAN TM Biotech	P04-41300
Hepes	GIBCO	15630-056
Glutamax	GIBCO	35050
Collagenase type I	PAN TM Biotech	PANLS0004194
Collagenase type II	PAN TM Biotech	PANLS0004174
Collagenase IV	Thermo Fisher Scientific	17104019
Elastase	Alfa Aesar	ALFJ61753-MB
DNAse I	Roche	10104159001
Red blood cell lysis buffer	Biolegend	420301
Penicillin/Streptomycin	PAN TM Biotech	P06-07100
TrypLE Express	GIBCO	12605-010
HBSS	GIBCO	14170-088
PBS	GIBCO	10010-015
Noggin	Peprotech	120-10C
A83-01	Cayman	9001799
Y-27632	Cayman	10005583
B27 supplement	GIBCO	12587-010
Human bFGF	R&Dsystems	234-FSE-025
Human EGF	R&Dsystems	236-EG-200
Pneumacult TM -Ex medium	Stemcell Technologies	05008
Pneumacult TM -Ex Plus medium	Stemcell Technologies	05040
Hydrocortisone	Stemcell Technologies	07925
Mounting medium	BioSystems	401603391
EDTA	Applichem	A1104, 0500
Bovine serum albumin (BSA)	Applichem	A1391, 0500
Agarose	Sigma	A9539-100G
Antibodies and reagents for flow cytometry and immunofluorescence		
Cytokeratin 7	Dako	M7018
Cytokeratin 5/6	Chemicon	MAB1620
p63 protein	Novocastra	NCL-L-p63
Thyroid Transcription Factor (TTF1)	Dako	M3575
Anti-mouse Alexa Fluor TM 488	ThermoFisher	A-11001
Anti-mouse Alexa Fluor TM 555	ThermoFisher	A-21422
ProTaq Mount Fluor Anti fading medium	Biosystems	401603392
BV605 anti-CD326 (EpCAM)	BD	563182
PE/Cy7 anti-human CD56 (NCAM)	Biolegend	362510
APC anti-human CD45	Biolegend	304012
BB700 anti-human CD31	BD	566564
PE CD90	BD	555596
BV605 mouse IgG1 κ	Biolegend	566404
PE mouse IgG1 κ	Biolegend	400111
PE/Cy7 mouse IgG1 κ	Biolegend	400125
BB700 mouse IgG1 κ	BD	566404
DRAQ7	Biolegend	424001
Human TruStain FcX TM	Biolegend	422302
Others		

ATPlite™ 1stSTEP	PerkinElmer AG	
InviTrap Spin Universal RNA mini kit	Invitek Molecular	1060100200
Random Hexamer	GIBCO	48190-011
Reverse transcriptase Superscript II	Invitrogen	18064-014
dNTPs 10 mM	Life Technologies	10297-018
Takyon™ No Rox SYBR Master Mix		
dTTP Blue	Eurogentec	UF-NSMT-B0701
MicroTissues® 3D Petri Dish® micro-mold spheroids	Thermofisher	Z764000
Cisplatin	Teva Pharmaceutical Industries	
Etoposide	Selleck Chemicals	S1225
Paclitaxel	Selleck Chemicals	S1150
CELLSTAR®, Cell-Repellent Surface 96 Well-microplate	Greiner Bio-One	7.6500

Table S2. Antibodies used for the immunofluorescence staining.

Antibodies	Manufacturer	Ref	Dilution
Cytokeratin 7	Dako	M7018	1/50
Cytokeratin 5/6	Chemicon	MAB1620	1/50
p63 protein	Novocastra	NCL-L-p63	1/100
Thyroid Transcription Factor (TTF1)	Dako	M3575	1/100
Ki67	Cell signaling	9027	1/500
Anti-mouse Alexa Fluor™ 488	ThermoFisher	A-11001	1/500
Anti-mouse Alexa Fluor™ 555	ThermoFisher	A-21422	1/500

Table S3. The sequences of gene-specific primers for RT-qPCR.

Gene	Forward	Reverse
CADM1	5'-AGCCTTGGCCTCTTCCTCAG-3'	5'-TCCCGAGGCTCCCCATCTAAG-3'
KRT16	5'-TTGCTGGATGTGAAGACGCGG-3'	5'-GTGAAGACCTCGCGGGAAGAA-3'
MMP1	5'-ATGGGCTTGAAGTCTTACGA-3'	5'-ACATTCTGTCCCTGAACAGCC-3'
NAPSA	5'-TATGGAAGTGGGCGGGTAGA-3'	5'-GGGAAAACCGAGGCCCAATA-3'
RPLP0	5'-GAAGACAGGGCGACCTGGAAG-3'	5'-GCGCATCATGGTGTCTTGCC-3'
HPRT1	5'-ACAGGACTGAACGTCTTGCTCG-3'	5'-TGATGTAATCCAGCAGGTCAGCA-3'
GusB	5'-ACGTGGTTGGAGAGCTCATT-3'	5'-CTCTGCCGAGTGAAGATCCC-3'