Materials List for:

Primary Human Bronchial Epithelial Cells Grown from Explants

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URL: http://www.jove.com/video/1789/

Materials

Name	Company	Catalog Number	Comments
Albumin from bovine serum, powder	Sigma-Aldrich	A4919	Use for coating solution
COLLAGEN TYPE I 0.1% Solution Sterile-filtered	Sigma-Aldrich	C8919	Use for coating solution
Fibronectin from human plasma	Sigma-Aldrich	F2006	Use for coating solution
Earle's Balanced Salt Solution (EBSS, sterile)	Sigma-Aldrich	28888	Use for rinsing tissue and for coating solution
DMEM/Ham F-12	Sigma-Aldrich	D8437	
FBS	Sigma-Aldrich	F1015	Inactivate, then aliquot and freeze (-20°C); use fresh when needed
Antibiotic-Antimycotic Stabilized	Sigma-Aldrich	A5955	Aliquot into 2 ml vials and freeze (-20°C); use fresh when needed
Albumin solution from bovine serum	Sigma-Aldrich	A8412	BSA
Pituitary Extract Bovine	Sigma-Aldrich	P1476	BPE
Epidermal growth factor	Sigma-Aldrich	E9644	EGF
()-Epinephrine	Sigma-Aldrich	E1635	
Insulin	Sigma-Aldrich	I6634	
Tranferrin Human	Sigma-Aldrich	T8158	
Triiodo-L-thyronine	Sigma-Aldrich	T6397	
Hydorcortisone	Sigma-Aldrich	H0888	
Retinoic Acid	Sigma-Aldrich	R2625	
Trypsin	Sigma-Aldrich	T9935	
EDTA	Sigma-Aldrich	E6758	EDTA
Phosphate buffered saline	Sigma-Aldrich	P5368	PBS
70% ethanol			Use for disinfecting and cleaning
24 well Transwells	Corning	3470	
Cell Culture Flasks (T75) CLLBND from Corning	Fisher Scientific	05-539-104	These flasks have a Cell Bind coating which promotes cell attachment and growth
Monoclonal Anti-Cytokeratin, pan-FITC antibody	Sigma-Aldrich	F3418	Permeabilization: 0.2% TRITON X-100/PBS; Use 1:250 dilution
Antibody: E-Cadherin (H108)	Santa Cruz Biotechnology, Inc.	sc-7870	**Do not permeabilize;** Use 1:250 dilution and A21207 (Invitrogen) as secondary antibody
Alexa Fluor 594 donkey anti-rabbit IgG	Invitrogen	A21207	Use 1:400 dilution
Antibody: Monoclonal mouse Anti-α-Smooth Muscle Actin-Cy3	Sigma-Aldrich	C6198	Permeabilization: 0.2% TRITON X-100/PBS; Use 1:100 dilution
Antibody: Vimentin (RV202)	Santa Cruz Biotechnology, Inc.	Sc-32322	Permeabilization: 0.2% TRITON X-100/PBS; Use 1:100 dilution

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			and T2402 (Sigma- Aldrich) as secondary antibody
Rabbit anti-mouse TRITC	Sigma-Aldrich	T2402	Use 1:400 dilution
Antibody: CD31 or PECAM-1 (M-20)	Santa Cruz Biotechnology, Inc.	Sc-1506	**Do not permeabilize;** Use 1:200 dilution and Donkey anti-goat IgG-FITC as secondary antibody
Donkey anti-goat IgG-FITC	Santa Cruz Biotechnology, Inc.		Use 1:100 dilution
Vectashield Mounting medium with DAPI	Vector Laboratories	H-1200	Refrigerate in the dark; stains nuclei and retains fluorescence duringprolonged storage
Vectashield Mounting medium	Vector Laboratories	H-1000	Refrigerate in the dark; retains fluorescence during prolonged storage
Hoechst Stain solution	Sigma-Aldrich	H6024	Stains nuclei; use 1:10 dilution and Vectashield H-1000
Other requirements: incubator, biological safety cabinet (BSC), centrifuge, 100mm culture plates, sterile tubes (15 ml, 50 ml, and 2 ml), sterile pipette tips, scalpel handle and blades, small sharp scissors, lab coats and gloves. These can be obtained from your preferred suppliers.			

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