

Materials List for

Primary Culture of Porcine Retinal Pigment Epithelial Cells

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Materials

Name	Company	Catalog Number	Comments
ARPE-19 cells	CCTCC	GDC0323	
Bovine serum albumin	Yeasen	36101ES60	
Confocal microscopy	Zeiss	LSM 880 with Airyscan	
ChemiDoc Touch	Bio-Rad	1708370	
Cell scraper	Sangon	F619301	
10 cm culture dish	NEST	121621EH01	
12-well culture plate	NEST	29821075P	
DMEM F12 Medium	Gibco	C11330500BT	
DMEM basic Medium	Gibco	C11995500BT	
EVOM2	World Precision Instruments	EVOM2	For TER measurement
Fetal bovine serum	ExCell Bio	FSP500	
Goat anti-Rabbit IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor 488	ThermoFisher Scientific	A-11034	
Goat anti-Rabbit IgG (H+L) Cross-Adsorbed Secondary Antibody, Alexa Fluor 594	ThermoFisher Scientific	A-11012	
Goat anti Mouse IgG (H/L):HRP	Bio-Rad	0300-0108P	
Goat anti Rabbit IgG (H/L):HRP	Bio-Rad	5196-2504	
hydrocortisone	MCE	HY-N0583/CS-2226	
Hoechst 33342 solution (20 mM)	ThermoFisher Scientific	62249	
LightCycler 96 Instrument	Roche	5815916001	
Liothyronine	MCE	HY-A0070A/CS-4141	
laminin	Sigma-Aldrich	L2020-1MG	
MEM(1X)+GlutaMAX Medium	Gibco	10566-016	
MEM NEAA(100X)	Gibco	11140-050	

Millex-GP syringe filter unit	Millipore	SLGPR33RB	
N1	Sigma-Aldrich	SLCF4683	
NcmECL Ultra	New Cell&Molecular Biotech	P10300	
Non-fat Powdered Milk	Solarbio	D8340	
Nicotinamide	SparkJade	SJ-MV0061	
Na ⁺ -K ⁺ ATPase antibody	Abcam	ab76020	Recognize both human and porcine proteins
PAGE Gel Fast Preparation Kit(10%)	Epizyme	PG112	
primary Human RPE cells	-	-	Generous gift from Shoubi Wang lab
Pierce BCA Protein Assay Kit	ThermoFisher Scientific	23225	
Prism	GraphPad by Dotmatics	version 8.0	
Protease Inhibitor Cocktails	APEX BIO	K1024	
PRE65 antibody	Proteintech	17939-1-AP	Recognize both human and porcine proteins
PEDF antibody	Santa Cruz Biotechnology	sc-390172	Recognize both human and porcine proteins
100 x penicillin/streptomycin	Biological Industries	03-031-1BCS	
Phosphate buffered saline (PBS)	RARBIO	RA-9005	
ReverTra Ace qPCR RT Master Mix	Toyobo	FSQ-201	
RIPA buffer	ThermoFisher Scientific	89900	
15 mL sterile centrifuge tubes	NEST	601052	
50 mL sterile centrifuge tubes	NEST	602052	
0.25% Trypsin-EDTA	Gibco	25200-056	
Taurine	Damas-beta	107-35-7	
Trizol	Thermo-Fisher	15596026	RNA extraction solution
TB Green Fast qPCR Mix	Takara	RR430A	
12-well transwell inserts	Labselect	14212	
VEGF antibody	Proteintech	19003-1-AP	Recognize both human and porcine proteins
VEGF ELISA kit	Novusbio	VAL106	
ZO-1 antibody	ABclonal	A0659	Recognize both human and porcine proteins