

Isolation and Culture of Primary Human Gingival Epithelial Cells using Y-27632

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Materials

Name	Company	Catalog Number	Comments
Names			Abbreviations & Comments
Countess automated cell counter	Shanghai Ruiyu Bio-science&Technology Co.Ltd.	BBA0218AC	Automatic cell counting
CO2 Incubator	Thermo Scientific	51026333	For cell incubation
Sorvall ST 16R Centrifuge	Thermo Scientific	75004380	Cell centrifuge
Cell Culture Dish	Eppendorf	30702115	For cell culture
50 ml Centrifuge Tube	KIRGEN	171003	For cell centrifugation
1.5 ml microcentrifuge Tubes	KIRGEN	190691J	For cell digestion
Cell Strainer	Corning incorporated	431792	Cell filtration
Phosphate buffered solution	Solarbio Life Science	P1020-500	Washing solution
DMEM	Thermo Scientific	C11995500	Component of neutralization medium
Defined K-SFM	Life Technologies	10785-012	Gingival epithelial cells culture medium
Penicillin Streptomycin	Thermo Scientific	15140-122	Antibiotics
Fetal Bovine Serum	Biological Industries	04-001-1AC5	Component of neutralization medium
0.05% Trypsin	Life Technologies	25300-062	For HGGEPs dissociation
Dilution Medium	Life Technologies	50-9701	For coating matrix
Dispase	Gibco	17105-041	For HGGEPs isolation
Collagenase Type I	Life Technologies	17100-017	For HGGEPs isolation
F12 Nutrient Mix, Hams	Life Technologies	31765035	Component of G-medium
B27 Supplement	Life Technologies	17504044	Growth factor in G-medium
FGF-2 Millipore	Merck Biosciences	341595	Growth factor in G-medium
Y-27632	Gene Operation	IAD1011	ROCK inhibitor
Fungizone	Gibco	15290026	Preparation for G-medium

EGF Recombinant Human Protein	Gibco	PHG0311	Growth factor in G-medium
Cell Counting Kit-8	Dojindo Molecular Technologies	CK04	For Cell proliferation assay
Rabbit Anti-Human CK18	Abcam	ab82254	For immunofluorescence staining to check differentiation marker of HGGEPCs
Rabbit Anti-Human Cytokeratin10	Abcam	ab76318	For immunofluorescence staining to check differentiation marker of HGGEPCs
Mouse anti-human Vimentin	Cell Signaling Technology	3390	For immunofluorescence staining of Gingival fibroblasts
Rabbit Anti-Human pan-ck	BD	550951	For immunofluorescence staining to check differentiation marker of HGGEPCs
rabbit anti-Ki67	Abcam	15580	For immunofluorescence staining to check differentiation marker of HGGEPCs
rabbit anti-p63	Biolegend	619002	For immunofluorescence staining to check differentiation marker of HGGEPCs
rabbit anti-p75NGFR	Abcam	ab52987	For immunofluorescence staining to check differentiation marker of HGGEPCs