

Materials List for:

Induction and Analysis of Epithelial to Mesenchymal Transition

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Materials

Name	Company	Catalog Number	Comments
Epithelial cells of interest			We have tested: A431, A549, HT29, T98G, MCF10A, MCF7, and PANC1
EMT Inducing Media Supplement	R&D Systems	CCM017	
Recombinant Human TGF-β1	R&D Systems	240-B	Used at 10ng/ml
Anti-E-Cadherin NL557 conjugated antibody	R&D Systems	NL648R	Used at a 1:10 dilution for immunocytochemistry
Anti-E-Cadherin	R&D Systems	MAB1838	Used at 0.1 µg/ml for western blotting
Anti-Fibronectin	R&D Systems	MAB1918	Used at 10 µg/ml for immunocytochemistry; Used at 0.5 µg/ml for western blotting
Anti-GAPDH	R&D Systems	AF5718	Used at 0.2 µg/ml for western blotting
Goat Anti-Mouse NL493 Secondary Antibody	R&D Systems	NL009	Used at a 1:200 dilution for immunocytochemistry
Donkey Anti-Goat HRP Secondary Antibody	R&D Systems	HAF109	Used at 1:2000 for western blotting
Goat Anti-Mouse HRP Secondary Antibody	R&D Systems	HAF007	Used at 1:2000 for western blotting
EMT 3-Color Immunocytochemistry Kit	R&D Systems	SC026	Used according to the manufacturer's instructions. This kit contains directly conjugated antibodies against E-cadherin, Vimentin, and Snail.
96 Well BME Cell Invasion Assay	R&D Systems	3455-096-K	This kit was used according to the manufacturer's recommendations.
Proteome Profiler Human Phospho-MAPK Array Kit	R&D Systems	ARY002B	This kit was used according to the manufacturer's recommendations ¹⁹ .
Mounting Media	R&D Systems	CTS011	
0.4% Trypan Blue Solution	Life Technologies	15350-061	
1X Phosphate Buffered Saline (PBS)			
95% Ethanol			
Bovine Serum Albumin	Sigma	A3311	
Normal Donkey Serum	Jackson Labs	017-000-121	
Triton-X-100	Roche Molecular Biochemicals	789-704	Dilute in 1X PBS to make a 10% stock solution
Paraformaldehyde	Sigma	P6148	Dilute in 1X PBS to a 4% working concentration.

DAPI Solution	Sigma	D9542	Make stock solution at 14.3mM by dissolving in water. Working solution is a 1:5000 dilution of the stock solution in 1X PBS.
Fine pointed curved forceps	Thermo-Fisher Scientific	08-875	
12 mm coverslips	Carolina Biological	633009	
Nonfat dry milk			Used at 5% in TBST for blocking in western blotting
TBST [25mM Tris, pH 7.4, 0.15M NaCl, 0.1% Tween 20]			For western blotting blocking and washing
PVDF Membrane			For western blotting
4-20% SDS-page gel			For western blotting
ECL substrate			For western blotting
15 ml conical tubes			
Plates/flasks, tissue culture treated			
24-well plates, tissue culture treated			
Pipettes / pipette tips			
Pipet Aid / pipets			
Hemocytometer			
37 °C Water Bath			
37 °C/5%CO ₂ Incubator			
Centrifuge			
Inverted light microscope			
Fluorescence microscope			