

Materials List for:

Live Cell Imaging of the TGF-β/Smad3 Signaling Pathway *In Vitro* and *In Vivo* Using an Adenovirus Reporter System

Hao Chen¹, Thomas M.B. Ware^{*1}, Josephine Iaria¹, Hong-Jian Zhu¹

¹Department of Surgery (RMH), University of Melbourne

*These authors contributed equally

Correspondence to: Hong-Jian Zhu at hongjian@unimelb.edu.au

URL: <https://www.jove.com/video/57926>

DOI: [doi:10.3791/57926](https://doi.org/10.3791/57926)

Materials

Name	Company	Catalog Number	Comments
DMEM	ThermoFisher	1881024	Warm in 37 °C waterbath before use
Foetal Bovine Serum	Scientifix Life	FBS500-S	Heat inactivated before use
Recombinant Human TGF-β1	PEPROTECH	100-21	Aliquot in DDW to make final concentration at 10 mg/mL
Hoechst-33258	Tocris Bioscience	5117	Dilute in to PBS to make final concentration at 1 μL/mL
Luciferase Reporter Assay Kit	Promega	197897	Dilute 5x in PBS before use
Luminometer	Promega	9100-002	
Phase contrast fluorescence microscopy	OLYMPUS	IX50	
Centrifuge	eppendorf	5810 R	
VivoGI Luciferin	Promega	P1041	
IVIS Lumina III In Vivo Imaging System	PerkinElmer	CLS136334	
0.5% Trypsin-EDTA (10x)	ThermoFisher	15400-054	Dilute to 0.05% (1x) in PBS
Cell Culture Lysis 5x Reagent	Promega	E153A	Dilute to 1x in DDW
10% Formalin	Sigma-Aldrich	F5554-4L	
HEK 293A	ThermoFisher	R70507	
MDA-MB-231	ATCC	CRM-HTB-26	
PRKDC-SCID	Animal Resources Centre	SCIDF6	
Matrigel	Corning	354234	
Isoflurane	Zoetis	26675-46-7	
Ethanol	Chem-supply	EA043-10L-P	
Refresh Night Time	Allergan	1750D	Lubricating Eye Ointment
Solution			Composition
Phosphate-Buffered Saline (PBS)			NaH ₂ PO ₄ .2H ₂ O (4 mM); NaHPO ₄ (16 mM); NaCl (0.12M)
FBS-DMEM			5% heat inactivated FBS; 10 μg/mL penicillin; 100 μg/mL streptomycin