

Materials List for:

Evaluation of Planar-Cell-Polarity Phenotypes in Ciliopathy Mouse Mutant Cochlea

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URL: <https://www.jove.com/video/53559>

DOI: [doi:10.3791/53559](https://doi.org/10.3791/53559)

Materials

Name	Company	Catalog Number	Comments
Tools/Equipment			
Silicone elastomere - Sylgard 184	Sigma-Aldrich	761028-5EA	See Note 2
Micro dissecting scissors-straight blade	Various		
Fine forceps (no. 5 and 55) and blunt forceps	Various		
Dissecting microscope.	Various		
Uncoated glass microscope slides	Various		
Microscope cover slips (22 mm × 40 mm × 0.15 mm)	Various		
Transfer pipettes	Various		
Minutien pins	Fine Science Tools	26002-10	
SEM sample holder	tousimis	8762	
Scanning electron microscopy studs	TED PELLA	16111	
PELCO Tabs: Carbon adhesive	TED PELLA	16084-3	
Fluorescent Microscope	Various		
Critical Point Dryer	Various		
Scanning Electron Microscope	Various		
Glass microscope slides	Various		
Glass coverslips	Various		
Kimwipe Tissue	Various		
Fine Paint Brush			
Reagents			
1× Phosphate buffered saline (PBS)	Gibco/Life Technologies	10010023	
Paraformaldehyde (PFA) (EM Grade Required for EM)	Various		Prepare a 4% solution in 1× PBS made fresh each time. EM Grade Required for EM.
2.5% Glutaraldehyde Grade1	Sigma-Aldrich	G5882	
Tris-HCl (pH 7.5)	Various		
NaCl	Various		
CaCl 2	Various		
Triton X-100	Various		
Normal Goat Serum	Various		
AffiniPure Fab Fragment Donkey Anti-Mouse IgG (H+L)	Jackson ImmunoResearch	715-007-003	

Fluoromount-G Mounting media	SouthernBiotech	0100-01	
10× Hanks' Balanced Salt Solution (HBSS)	Gibco/Life Technologies	14065	
Hepes	Gibco/Life Technologies	15630-080	
Osmium tetroxide (OsO ₄)	Sigma-Aldrich/Fluka Analytical	75632	
Tannic acid	Sigma-Aldrich	403040	
Ethanol 200 proof	Various		
Antibodies			
anti Arl13b	Protein Tech	17711-1-AP	Suggested concentration 1:1,000
anti acetylated tubulin (611-B1)	Sigma-Aldrich	T6793	Suggested concentration 1:800
anti gamma tubulin (GTU-88)	Sigma-Aldrich	T6557	Suggested concentration 1:200
anti Zo ₁	Invitrogen	40-2300	Suggested concentration 1:500
Myosin VI	Proteus Biosciences	25-6791	Suggested concentration 1:1000
Myosin VIIa	Proteus Biosciences	25-6790	Suggested concentration 1:1,000
anti Vangl2	Merk Millipore	ABN373	Suggested concentration 1:250
anti Gai3	Sigma-Aldrich	G4040	Suggested concentration 1:250
Alexa Fluor® 488 Phalloidin	Invitrogen/Life Technologies	A12379	Suggested concentration 1:300 - 1,000
Alexa Fluor® 568 Phalloidin	Invitrogen/Life Technologies	A12380	Suggested concentration 1:300 - 1,000