

Materials List for:

Tissue Preparation and Immunostaining of Mouse Craniofacial Tissues and Undecalcified Bone

Jingwen Yang^{*1,2}, Haichun Pan^{*2}, Yuji Mishina²

¹The State Key Laboratory Breeding Base of Basic Science of Stomatology (Hubei-MOST) & Key Laboratory for Oral Biomedicine of Ministry of Education, School and Hospital of Stomatology, Wuhan University

²Department of Biologic and Materials Sciences, School of Dentistry, University of Michigan

* These authors contributed equally

Correspondence to: Yuji Mishina at mishina@umich.edu

URL: <https://www.jove.com/video/59113>

DOI: [doi:10.3791/59113](https://doi.org/10.3791/59113)

Materials

Name	Company	Catalog Number	Comments
Adhesive tape	Leica	#39475214	
Alexa fluor 488-goat anti-Rabbit secondary antibody	Invitrogen	A-11034	
Antifade Mountant with DAPI	Invitrogen	P36931	
Bovine serum albumin	Sigma	A2153	
Coverslips	Fisher Brand	12-545-E	
Cryostat	Leica	CM1850	
EDTA	Sigma	E6758	
Fluorescence microscope	Olympus	BX51	
Gelatin	Sigma	G1890	
In Situ Cell Death Detection Kit	Millipore	S7165	
Microscope slides	Fisher Brand	12-550-15	
OCT Compound	Fisher Healthcare	23-730-571	
Paraformaldehyde (PFA)	Sigma	P6148	
Phosphate buffered saline (PBS)	Sigma	P4417	
Polyethylene glycol tert-octylphenyl ether	Sigma	T9284	Triton X-100
Proteinase K	Invitrogen	AM2542	
Rabbit anti-Ki67 antibody	Cell Signaling Technology	9129	Lot#:3; RRID:AB_2687446
Rabbit anti-pSmad1/5/9 antibody	Cell Signaling Technology	13820	Lot#:3; RRID:AB_2493181
Sodium citrate	Sigma	1613859	
Sucrose	Sigma	S9378	
Tris	Sigma	10708976001	