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

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