

Materials List for:

Precision-cut Mouse Lung Slices to Visualize Live Pulmonary Dendritic Cells

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Materials

| Name | Company | Catalog Number | Comments |
|--|-------------------------------------|----------------|--|
| C57BL/6J mice | Jackson Laboratory | 000664 | |
| Prox1-TdTomato transgenic mice | Jackson Laboratory | 018128 | B6;129S-Tg(Prox1-tdTomato)12Nrud/J |
| OT-II OVA-specific TCR x Nur77-GFP transgenic mice | Jackson Laboratory | 004194, 016617 | B6.Cg-Tg(TcraTcrb)425Cbn/J x C57BL/6-Tg(Nr4a1-EGFP/cre)820Khog/J |
| Rag1 knock-out mice | Jackson Laboratory | 002216 | B6.129S7-Rag1 ^{tm1Mom} /J |
| Ovalbumin, Low Endo, Purified | Worthington Biochemical Corporation | LS003059 | |
| Lipopolysaccharides from Escherichia coli | Sigma-Aldrich Co. | L2630-25MG | |
| Polyethylene tubing (Non-Sterile) 100 ft | BD Diagnostic Systems | 427421 | 0.86 mm inside diameter, 1.27 mm outside diameter |
| GeneMate Sieve GQA Low Melt Agarose | BioExpress | E-3112-125 | 2% solution dissolved in PBS at 70 °C and held at 40 °C. |
| Compresstome VF-300 | Precisionary Instruments, Inc. | VF-300 | |
| Double Edge Stainless Razor Blade | Electron Microscopy Sciences | 72000 | Disposable; 250/box. Blade should be changed for every lung. |
| Krazy Glue All Purpose Instant Gel | VWR | 500033-484 | Commonly available for \$3/tube in local drugstores |
| Leibovitz's L-15 Medium, no phenol red | ThermoFisher Scientific | 21083027 | |
| Normal Rat Serum (NRS) | Jackson ImmunoResearch Inc. | 012-000-120 | |
| Normal Mouse Serum (NMS) | Jackson ImmunoResearch Inc. | 015-000-120 | |
| Fetal bovine serum (FBS) | Hyclone | SH30071.03HI | |
| Staining Buffer | Made in House | N/A | PBS w/ 0.5% bovine serum albumin, 0.1% NaN ₃ , pH 7.4 |
| Fc Blocker (anti-CD16/32 antibodies) | Made in House | N/A | Supernatant of cultured hybridoma cell line 2.4G2 |
| Anti-mouse CD11b eFluor 450 | eBioscience | 48-0112-80 | Anti-mouse CD11b eFluor 450 (clone: M1/70) |
| Anti-mouse CD11c Brilliant Violet 605 | BioLegend | 101237 | Brilliant Violet 605 anti-mouse CD11c (clone: M1/70) |
| Anti-mouse CD11c Phycoerythrin | eBioscience | 12-0114-82 | PE conjugated anti-mouse CD11c (clone: N418) |
| Anti-mouse CD11c Allophycocyanin | BD Pharmingen | 550261 | APC-labeled anti-mouse CD11c 9clone: HL3) |
| Anti-mouse CD88 Phycoerythrin | BioLegend | 135806 | PE anti-mouse CD88 (clone: 20/70) |
| Anti-mouse CD103 Allophycocyanin | eBioscience | 17-1031-82 | Anti-mouse CD103 APC (clone: 2E7) |

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| Anti-mouse CD90.2/Thy1.2 eF450 | eBioscience | 48-0902-82 | Anti-mouse CD90.2 eFluor 450 (clone: 53-2.1) |
| Anti-mouse CD172a/Sirp1a Allophycocyanin | eBioscience | 17-1721-82 | Anti-mouse CD172a APC (clone: P84) |
| Anti-mouse CD324 Brilliant Violet 421 | BD Horizon | 564188 | BV421 mouse anti-E Cadherin (clone: 5E8 also known as 5E8-G9-B4) |
| Anti-mouse CD324 Alexa Fluor 488 | eBioscience | 53-3249-82 | Anti-CD324 (E-Cadherin) Alexa Fluor 488 (clone: DECMA-1) |
| Anti-mouse CD324 Alexa Fluor 647 | eBioscience | 51-3249-82 | Anti-CD324 (E-Cadherin) Alexa Fluor 647 (clone: DECMA-1) |
| Glass Bottom Microwell Dishes 35 mm petri dish, 14 mm Microwell, No. 1.5 coverglass | MatTek Corporation | P35G-1.5-14-C | |
| Nunc Lab-Tek Chambered Coverglass | ThermoFisher Scientific | 155411PK | Pack of 16 |
| 15 mm Coverslip, No. 1.5 Glass Thickness | MatTek Corporation | PCS-1.5-15 | |
| Bare Platinum Wire | World Precision Instruments | PTP201 | 0.020" (0.5 mm) diameter cut into ~1 cm long pieces and bent into an "L" shape |
| ProLong Gold Antifade Mountant | ThermoFisher Scientific | P36934 | Keep at 4 °C, warm to room temperature before use. |
| Matrigel Growth Factor Reduced (GFR) Basement Membrane Matrix, Phenol Red-Free, *LDEV-Free | Corning | 356231 | |
| Zeiss 880 multi-photon laser-scanning microscope | Carl Zeiss | | Zen Black software version 8.1, 2012 (Zeiss) |
| Plan-Apochromat 20X/0.8 M27 objective lens | Carl Zeiss | 420650-9901-000 | |