

Materials List for

FACS-Isolation and Culture of Fibro-Adipogenic Progenitors and Muscle Stem Cells from Unperturbed and Injured Mouse Skeletal Muscle

Giulia Riparini¹, James M. Simone², Vittorio Sartorelli¹

¹Laboratory of Muscle Stem Cells and Gene Regulation, National Institute of Arthritis, Musculoskeletal, and Skin Diseases (NIAMS), National Institutes of Health (NIH) ²Flow Cytometry Section, National Institute of Arthritis, Musculoskeletal, and Skin Diseases (NIAMS), National Institutes of Health (NIH)

Corresponding Authors

Giulia Riparini

giulia.riparini@nih.gov

Vittorio Sartorelli

vittorio.sartorelli@nih.gov

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jove.com/video/63983

Materials

| Name | Company | Catalog Number | Comments |
|---|------------------------------------|----------------|----------|
| 5 mL Polypropylene Round-Bottom Tube | Falcon | 352063 | |
| 5 mL Polystyrene Round-Bottom Tube with Cell-Strainer Cap | Falcon | 352235 | |
| 20 G BD Needle 1 in. single use, sterile | BD Biosciences | 305175 | |
| anti-Alpha 7 Integrin PE (clone:R2F2) (RatlgG2b) | The University of British Columbia | 53-0010-01 | |
| APC anti-mouse CD31 Antibody | BioLegend | 102510 | |
| APC anti-mouse CD45 Antibody | BioLegend | 103112 | |
| BD FACSMelody Cell Sorter | BD Biosciences | | |
| BD Luer-Lok tip control syringe, 10-mL | BD Biosciences | 309604 | |
| Biotin anti-mouse CD106 Antibody | BioLegend | 105703 | |
| C57BL/6J mouse (Female and Male) | The Jackson Laboratory | 000664 | |
| B6.129S4-Pdgfratm11(EGFP)Sor/J mouse | The Jackson Laboratory | 007669 | |
| Corning BioCoat Collagen I 6-well Clear Flat Bottom TC-treated Multiwell Plate | Corning | 356400 | |
| Corning BioCoat Collagen I 12-well Clear Flat Bottom TC-treated Multiwell Plate | Corning | 356500 | |
| Corning BioCoat Collagen I 24-well Clear Flat Bottom TC-treated Multiwell Plate | Corning | 356408 | |
| DAPI Solution (1 mg/mL) | ThermoFisher Scientific | 62248 | |
| Disposable Aspirating Pipets, Polystyrene, Sterile | VWR | 414004-265 | |

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| Donkey anti-Goat IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor 488 | ThermoFisher Scientific | A-11055 | |
| Falcon 40 µm Cell Strainer, Blue, Sterile | Corning | 352340 | |
| Falcon 60 mm TC-treated Cell Culture Dish, Sterile | Corning | 353002 | |
| Falcon Centrifuge Tubes, Polypropylene, Sterile, Corning, 15- mL | VWR | 352196 | |
| Falcon Centrifuge Tubes, Polypropylene, Sterile, Corning, 50- mL | Corning | 352070 | |
| Falcon Round-Bottom Tubes, Polypropylene, Corning | VWR | 60819-728 | |
| Falcon Round-Bottom Tubes, Polystyrene, with 35µm Cell Strainer Cap Corning | VWR | 21008-948 | |
| Fibroblast Growth Factor, Basic, Human, Recombinant (rhFGF, Basic) | Promega | G5071 | |
| FlowJo 10.8.1 | | | |
| Gibco Collagenase, Type II, powder | ThermoFisher Scientific | 17101015 | |
| Gibco Dispase, powder | ThermoFisher Scientific | 17105041 | |
| Gibco DMEM, high glucose, HEPES | ThermoFisher Scientific | 12430054 | |
| Gibco Fetal Bovine Serum, certified, United States | ThermoFisher Scientific | 16000044 | |
| Gibco Ham's F-10 Nutrient Mix | ThermoFisher Scientific | 11550043 | |
| Gibco Horse Serum, New Zealand origin | ThermoFisher Scientific | 16050122 | |
| Gibco PBS, pH 7.4 | ThermoFisher Scientific | 10010023 | |
| Gibco PBS (10x), pH 7.4 | ThermoFisher Scientific | 70011044 | |
| Gibco Penicillin-Streptomycin- Glutamine (100x) | ThermoFisher Scientific | 10378016 | |
| Goat anti-Mouse IgG1 cross- absorbed secondary antibody, Alexa Fluor 555 | ThermoFisher Scientific | A-21127 | |
| Hardened Fine Scissors | Fine Science Tools Inc | 14090-09 | |
| Invitrogen 7-AAD (7- Aminoactinomycin D) | ThermoFisher Scientific | A1310 | |
| Mouse PDGF R alpha Antibody | R&D Systems | AF1062 | |
| Normal Donkey Serum | Fisher Scientific | NC9624464 | |
| Normal Goat Serum | ThermoFisher Scientific | 31872 | |
| Pacific Blue anti-mouse Ly-6A/E (Sca 1) Antibody | BioLegend | 108120 | |
| Paraformaldehyde, 16% | Fisher Scientific | NCC0528893 | |
| Pax7 mono-clonal mouse antibody (IgG1) (supernatant) | Developmental Study Hybridoma Bank | N/A | |
| PE/Cyanine7 Streptavidin | BioLegend | 405206 | |
| Student Vannas Spring Scissors | Fine Science Tools Inc | 91500-09 | |
| Student Dumont #5 Forceps | Fine Science Tools Inc | 91150-20 | |
| Triton X-100 | Sigma-Aldrich | T8787 | |