Materials List for:
A Rapid Automated Protocol for Muscle Fiber Population Analysis in Rat Muscle Cross Sections Using Myosin Heavy Chain Immunohistochemistry

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<table>
<thead>
<tr>
<th>Name</th>
<th>Company</th>
<th>Catalog Number</th>
<th>Comments</th>
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<tbody>
<tr>
<td>O.C.T compound</td>
<td>Tissue-Tek, Sakura, Netherlands</td>
<td></td>
<td>For embedding of muscle tissue</td>
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<tr>
<td>Isopentane</td>
<td></td>
<td></td>
<td>for adequate freezing of muscle tissue</td>
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<td>Superfrost Ultra Plus slides</td>
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<td>adhesive slides</td>
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<td>phosphate buffered saline</td>
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<td>Thermo Scientific, Germany</td>
<td>85112</td>
<td>Detergent Solution</td>
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<td>Goat serum</td>
<td>Thermo Scientific, Germany</td>
<td>50197Z</td>
<td>Goat Serum</td>
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<td>S200230-2</td>
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<td>TissueFAXSi plus</td>
<td>TissueGnostics, Vienna, Austria</td>
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**Primary antibodies**

- MHC-I (Cat# BA-F8, RRID: AB_10572253)
  - Developmental Studies Hybridoma Bank (DSHB, Iowa, USA)
  - Supernatant

- MHC-IIa (Cat# SC-71, RRID: AB_2147165)
  - Developmental Studies Hybridoma Bank (DSHB, Iowa, USA)
  - Supernatant

- MHC-IIb (Cat# BF-F3, RRID: AB_2266724)
  - Developmental Studies Hybridoma Bank (DSHB, Iowa, USA)
  - Supernatant

**Secondary antibodies**

- Alexa Fluor 633 Goat Anti-Mouse IgG2b
  - Thermo Scientific, Germany
  - A-21146

- Alexa Fluor 488 Goat Anti-Mouse IgG1 (γ1)
  - Thermo Scientific, Germany
  - A-21121

- Alexa Fluor 555 Goat Anti-Mouse IgM (µ chain)
  - Thermo Scientific, Germany
  - A-21426

- NucBlue Fixed Cell ReadyProbes Reagent
  - Thermo Scientific, Germany
  - R37606