Antibodies

Antibody Information

**Product Description**

The ICRF44 antibody reacts with an extracellular epitope on CD11b (integrin αM), an ~170 kDa type 1 transmembrane glycoprotein which associates non-covalently with CD18 to form the heterodimeric Mac-1 receptor. Through its interactions with ligands such as ICAM-1 (CD54), ICAM-2 (CD102), ICAM-4 (CD242), iC3b, heparin and fibrinogen, Mac-1 influences several processes, including the adherence of neutrophils and monocytes to stimulated endothelium, and phagocytosis of complement-coated particles. CD11b is expressed on the surface of granulocytes, monocytes, NK cells, dendritic cells, tissue macrophages and subsets of T and B cells, and has been used as a marker to distinguish naïve and memory CD8+ T cells. CD11b is a relatively late marker for myeloid differentiation and is undetectable on most myelomonocytic hematopoietic progenitor cells and more primitive cells. Certain mutations in CD11b give rise to the disorder systemic lupus erythematosus. The ICRF44 antibody reportedly inhibits leukocyte aggregation in response to the chemoattractant fMLP.

**Applications**

- **Verified:** CellSep, FC
- **Reported:** CyTOF®, FA, FC, ICC, IF, IHC, IP, WB
- **Special Applications:** This antibody clone has been verified for labeling human mesenchymal cells grown in MesenCult™ Proliferation Kit (Human; Catalog #05411) and MesenCult™-XF Medium (Catalog #05420).

**Properties**

- **Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
- **Purification:** The antibody was purified by affinity chromatography.
- **Stability and Storage:** Product stable at 2 - 8°C when stored undiluted. Do not freeze. For product expiry date, please request a lot-specific Certificate of Analysis from techsupport@stemcell.com.
- **Directions for Use:** For flow cytometry the suggested use of this antibody is ≤ 0.5 μg per 1 x 10^6 cells in 100 μL volume. It is recommended that the antibody be titrated for optimal performance for each application.
Antibodies

**Anti-Human CD11b Antibody, Clone ICRF44**

**Data**

Flow cytometry analysis of human peripheral blood granulocytes labeled with Anti-Human CD11b Antibody, Clone ICRF44, followed by anti-mouse IgG, FITC (filled histogram) or a mouse IgG1, kappa isotype control antibody followed by anti-mouse IgG, FITC (open histogram).

**Related Products**

<table>
<thead>
<tr>
<th>PRODUCT NAME</th>
<th>CATALOG #</th>
<th>SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anti-Human CD11b Antibody, Clone ICRF44</td>
<td>60040</td>
<td>100 μg</td>
</tr>
<tr>
<td>Anti-Human CD11b Antibody, Clone ICRF44, PE</td>
<td>60040PE</td>
<td>100 tests</td>
</tr>
<tr>
<td>Anti-Human CD11b Antibody, Clone ICRF44, PE</td>
<td>60040PE.1</td>
<td>25 tests</td>
</tr>
<tr>
<td>Anti-Human CD11b Antibody, Clone ICRF44, Alexa Fluor® 488</td>
<td>60040AD</td>
<td>100 tests</td>
</tr>
<tr>
<td>Anti-Human CD11b Antibody, Clone ICRF44, Alexa Fluor® 488</td>
<td>60040AD.1</td>
<td>25 tests</td>
</tr>
</tbody>
</table>

**References**


Copyright © 2013 by STEMCELL Technologies Inc. All rights reserved including graphics and images. STEMCELL Technologies & Design, STEMCELL Shield Design, Scientists Helping Scientists and MesenCult are trademarks of STEMCELL Technologies Inc. All other trademarks are the property of their respective holders. Alexa Fluor® is a registered trademark of Life Technologies Corporation. This product is licensed for internal research use only and its sale is expressly conditioned on the buyer not using it for manufacturing, performing a service, or medical test, or otherwise generating revenue. For use other than research, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad, CA 92008 USA or outlicensing@lifetech.com.

**STEMCELL TECHNOLOGIES INC.'S QUALITY MANAGEMENT SYSTEM IS CERTIFIED TO ISO 13485 MEDICAL DEVICE STANDARDS.**