**Technical Data Sheet**

**APC Hamster Anti-Mouse CD11c**

**Product Information**

- **Material Number:** 561119
- **Alternate Name:** Cd11c; Itgax; Integrin alpha-X; Integrin αX; Cr4; Complement receptor 4
- **Size:** 25 µg
- **Concentration:** 0.2 mg/ml
- **Clone:** HL3
- **Immunogen:** C57BL/6 Mouse Intestinal Intraepithelial Lymphocytes
- **Isotype:** Armenian Hamster IgG1, λ
- **Reactivity:** QC Testing: Mouse
- **Storage Buffer:** Aqueous buffered solution containing protein stabilizer and ≤0.09% sodium azide.

**Description**

The HL3 monoclonal antibody specifically binds to the integrin α chain of gp150, 95 (CD11c/CD18). CD11c is expressed on dendritic cells, CD4- CD8+ intestinal intraepithelial lymphocytes (IEL) and some NK cells. It is upregulated on IEL and lymph-node T cells following *in vivo* activation. Cells of the monocyte/macrophage lineage have been reported to express low levels of CD11c. CD11c plays a role in binding of iC3b.

**Flow cytometric analysis of CD11c expression on mouse splenocytes.** C57BL/6 mouse splenocytes were stained with PE Mouse Anti-Mouse NK-1.1 (Cat. No. 557391/553165) and APC Hamster anti-Mouse CD11c antibody (Cat. No. 550261/561119; right panel). The contour plots were derived from events with the forward and side light-scatter characteristics of viable splenocytes. Flow cytometric analysis was performed using a BD FACSCalibur™ flow cytometry system.

**Preparation and Storage**

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated to APC under optimum conditions, and unconjugated antibody and free APC were removed.

**Application Notes**

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<thead>
<tr>
<th>Application</th>
<th>Routine Tested</th>
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<tr>
<td>Flow cytometry</td>
<td>Routinely Tested</td>
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### Suggested Companion Products

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<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
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<tbody>
<tr>
<td>557391</td>
<td>PE Mouse Anti-Mouse NK-1.1</td>
<td>0.1 mg</td>
<td>PK136</td>
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<tr>
<td>553956</td>
<td>APC Hamster IgG1, λ1 Isotype Control</td>
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<td>G235-2356</td>
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<tr>
<td>554657</td>
<td>Stain Buffer (BSA)</td>
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<td>550261</td>
<td>APC Hamster Anti-Mouse CD11c</td>
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<td>HL3</td>
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<tr>
<td>553165</td>
<td>PE Mouse Anti-Mouse NK-1.1</td>
<td>0.2 mg</td>
<td>PK136</td>
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### Product Notices
1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. An isotype control should be used at the same concentration as the antibody of interest.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. This APC-conjugated reagent can be used in any flow cytometer equipped with a dye, HeNe, or red diode laser.
5. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.
6. Although hamster immunoglobulin isotypes have not been well defined, BD Biosciences Pharmingen has grouped Armenian and Syrian hamster IgG monoclonal antibodies according to their reactivity with a panel of mouse anti-hamster IgG mAbs. A table of the hamster IgG groups, Reactivity of Mouse Anti-Hamster Ig mAbs, may be viewed at http://www.bdbiosciences.com/documents/hamster_chart_11x17.pdf.

### References
- Gao JX, Liu X, Wen J, et al. Differentiation of monocytic cell clones into CD8 alpha+ dendritic cells (DC) suggests that monocytes can be direct precursors for both CD8 alpha+ and CD8 alpha- DC in the mouse. *J Immunol.* 2003; 170(12):5927-5935. (Biology)