Technical Data Sheet

Biotin Hamster Anti-Mouse CD11c

Product Information

Material Number: 553800
Alternate Name: Cd11c; Itgax; Integrin alpha-X; Integrin αX; Cr4; Complement receptor 4
Size: 0.5 mg
Concentration: 0.5 mg/ml
Clone: HL3
Immunogen: C57BL/6 Mouse Intestinal Intraepithelial Lymphocytes
Isotype: Armenian Hamster IgG1, λ
Reactivity: Mouse

Storage Buffer: Aqueous buffered solution containing protein stabilizer and ≤0.09% sodium azide.

Description

The HL3 monoclonal antibody specifically binds to the integrin αX 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.

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 with biotin under optimum conditions, and unreacted biotin was removed.

Application Notes

Application

| Flow cytometry | Routinely Tested |

Flow cytometric analysis of CD11c expression on mouse splenocytes. Spleen NK cells were stained with PE Mouse Anti-Mouse NK-1.1 (Cat. No. 557391/553165) and either Biotin Hamster IgG Isotype Control (Cat. No. 553952; left panel) or Biotin Hamster anti-Mouse CD11c antibody (Cat. No. 553800; right panel). Secondary staining was carried out with Avidin FITC (Cat. No. 553800). 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 FACSCan™ flow cytometry system.

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**Suggested Companion Products**

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<th>Catalog Number</th>
<th>Name</th>
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<th>Clone</th>
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<td>PE Mouse Anti-Mouse NK-1.1</td>
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<td>Avidin FITC</td>
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<td>Biotin Hamster IgG1, λ1 Isotype Control</td>
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<td>Stain Buffer (BSA)</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. 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.
5. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.

**References**