Technical Data Sheet

Alexa Fluor® 700 Hamster Anti-Mouse CD11c

Product Information

560583 **Material Number:** Integrin ax chain Alternate Name:

50 µg Size 0.2 mg/mlConcentration:

C57BL/6 Mouse Intestinal Intraepithelial Lymphocytes Immunogen:

Armenian Hamster IgG1, λ2 Isotype: QC Testing: Mouse Reactivity:

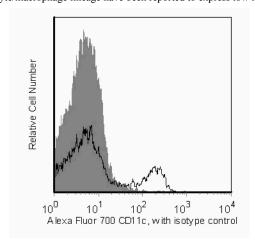
Storage Buffer: Aqueous buffered solution containing protein stabilizer and ≤0.09% sodium

HL3

Description

Clone:

The HL3 antibody reacts with the integrin ax chain of gp150, 95 (CD11c/CD18) which is expressed on dendritic cells and CD4-CD8+ intestinal intraepithelial lymphocytes (IEL) and is upregulated on IEL and lymph-node T cells following in vivo activation. CD11c is also found on human NK cells. Although its expression on mouse NK cells is not published, we have detected CD11c on mouse splenic NK cells. 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 on mouse dendritic cells. C57BL/6 splenocytes treated with 5 ng/mL GM-CSF were stained either with a Alexa Fluor® 700 Hamster IgG1, λ1 isotype control (shaded) or with the Alexa Fluor® 700 Hamster Anti-Mouse CD11c antibody (unshaded). Histograms were derived from gated events based on light scattering characteristics for dendritic cells. Flow cytometry was performed on a BD™ LSR II 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 Alexa Fluor® 700 under optimum conditions, and unreacted Alexa Fluor® 700 was removed.

Application Notes

Application

Flow cytometry	Routinely Tested	
----------------	------------------	--

Suggested Companion Products

Catalog Number	Name	Size	Clone
560555	Alexa Fluor® 700 Hamster IgG1, λ1 Isotype Control	0.1 mg	G235-2356
554586	Recombinant Mouse GM-CSF	10 μg	(none)
553141	Purified Rat Anti-Mouse CD16/CD32 (Mouse BD Fc Block™)	0.1 mg	2.4G2

Product Notices

- Since applications vary, each investigator should titrate the reagent to obtain optimal results.
- An isotype control should be used at the same concentration as the antibody of interest.

BD Biosciences

bdbiosciences.com

United States Europe 877.232.8995 888.259.0187 32.53.720.550 0120.8555.90 65.6861.0633 55.11.5185.9995

For country-specific contact information, visit bdbiosciences.com/how_to_order/

Conditions: The information disclosed herein is not to be construed as a recommendation to use the above product in violation of any patents. BD Biosciences will not be held responsible for patent infringement or other violations that may occur with the use of our products. Purchase does not include or carry any right to resell or transfer this product either as a stand-alone product or as a component of another product. Any use of this product other than the permitted use without the express

written authorization of Becton Dickinson and Company is strictly prohibited.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Not for resale.

BD, BD Logo and all other trademarks are the property of Becton, Dickinson and Company. ©2008 BD



- 3. 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/pharmingen/hamster_chart_11x17.pdf.
- 4. Alexa Fluor® 700 has an adsorption maximum of ~700nm and a peak fluorescence emission of ~720nm. Before staining cells with this reagent, please confirm that your flow cytometer is capable of exciting the fluorochrome and discriminating the resulting fluorescence.
- 5. Alexa Fluor is a registered trademark of Molecular Probes, Inc., Eugene, OR.
- 6. The Alexa Fluor®, Pacific Blue™, and Cascade Blue® dye antibody conjugates in this product are sold under license from Molecular Probes, Inc. for research use only, excluding use in combination with microarrays, or as analyte specific reagents. The Alexa Fluor® dyes (except for Alexa Fluor® 430), Pacific Blue™ dye, and Cascade Blue® dye are covered by pending and issued patents.
- 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.
- 8. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/colors.
- 9. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

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)

Huleatt JW, Lefrancois L. Antigen-driven induction of CD11c on intestinal intraepithelial lymphocytes and CD8+ T cells in vivo. *J Immunol.* 1995; 154(11):5684-5693. (Immunogen: Immunogen: Immunogen

Larson RS, Springer TA. Structure and function of leukocyte integrins. Immunol Rev. 1990; 114:181-217. (Biology)

Maraskovsky E, Brasel K, Teepe M, et al. Dramatic increase in the numbers of functionally mature dendritic cells in Flt3 ligand-treated mice: multiple dendritic cell subpopulations identified. *J Exp Med.* 1996; 184(5):1953-1962. (Biology)

Metlay JP, Witmer-Pack MD, Agger R, Crowley MT, Lawless D, Steinman RM. The distinct leukocyte integrins of mouse spleen dendritic cells as identified with new hamster monoclonal antibodies. *J Exp Med.* 1990; 171(5):1753-1771. (Biology)

Pulendran B, Lingappa J, Kennedy MK, et al. Developmental pathways of dendritic cells in vivo: distinct function, phenotype, and localization of dendritic cell subsets in FLT3 ligand-treated mice. *J Immunol*. 1997; 159(5):2222-2231. (Biology)

560583 Rev. 1 Page 2 of 2