# Technical Data Sheet V450 Hamster Anti-Mouse CD11c

# **Product Information**

560521			
Integrin αx chain			
50 µg			
0.2 mg/ml			
HL3			
C57BL/6 Mouse Intestinal Intraepithelial Lymphocytes			
Armenian Hamster IgG1, $\lambda 2$			
QC Testing: Mouse			
Aqueous buffered solution containing protein stabilizer and $\leq 0.09\%$ sodium azide.			

# Description

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.

The antibody is conjugated to BD Horizon<sup>TM</sup> V450, which has been developed for use in multicolor flow cytometry experiments and is available exclusively from BD Biosciences. It is excited by the Violet laser Ex max of 406 nm and has an Em Max at **450** nm. Conjugates with BD Horizon<sup>TM</sup> V450 can be used in place of Pacific Blue<sup>TM</sup> conjugates.



Flow cytometric analysis of CD11c on mouse dendritic cells. C57BL/6 splenocytes treated with 5 ng/mL GM-CSF were stained either with a BD Horizon™ V450 Hamster IgG1, A1 isotype control (shaded) or with the BD Horizon™ V450 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 with BD Horizon<sup>TM</sup> V450 under optimum conditions, and unreacted BD Horizon<sup>TM</sup> V450 was removed.

# **Application Notes**

Flow cytometry	Routinely Tested					
Suggested Compan	ion Products					
Catalog Number	Name	Size	Clone			
560552	V450 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						

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.

# **BD Biosciences**

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- 3. BD Horizon<sup>TM</sup> V450 has a maximum absorption of 406 nm and maximum emission of 450 nm. Before staining with this reagent, please confirm that your flow cytometer is capable of exciting the fluorochrome and discriminating the resulting fluorescence.
- 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/pharmingen/hamster chart 11x17.pdf.
- 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.
- 6. Pacific Blue<sup>™</sup> is a trademark of Molecular Probes, Inc., Eugene, OR.
- 7. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/colors.
- 8. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

#### References

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