

## Technical Data Sheet

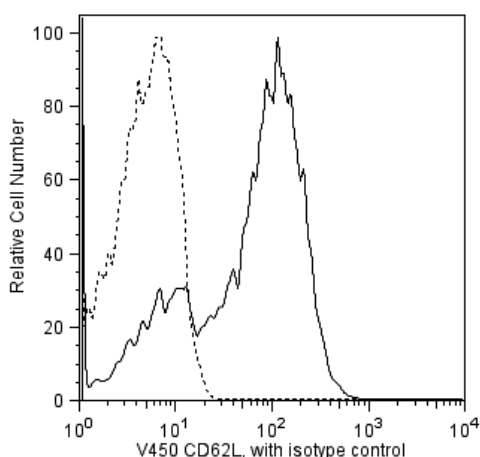
**V450 Mouse Anti-Human CD62L****Product Information**

<b>Material Number:</b>	<b>560441</b>
<b>Alternate Name:</b>	SELL; L-selectin; LSEL; LAM-1; LECAM-1; LEU8; LNHR; MEL-14; PLNHR; TQ-1
<b>Size:</b>	30 tests
<b>Vol. per Test:</b>	5 µl
<b>Clone:</b>	DREG-56
<b>Isotype:</b>	Mouse IgG1, κ
<b>Reactivity:</b>	QC Testing: Human
<b>Workshop:</b>	V S056
<b>Storage Buffer:</b>	Aqueous buffered solution containing protein stabilizer and ≤0.09% sodium azide.

**Description**

The DREG-56 monoclonal antibody specifically binds to CD62L. CD62L is a 76-95 kDa glycoprotein that is also referred to as L-selectin or LECAM-1. CD62L is expressed on neutrophils, monocytes, T- and B-lymphocyte subsets and NK cells. The DREG-56 antibody recognizes the same antigen as LAM-1, and specifically inhibits >90% of binding of human lymphocytes to high endothelial venules (HEV) in frozen sections of peripheral, but not mucosal lymphoid tissue. It thus defines L-selectin as a human lymphocyte homing receptor for peripheral lymph node HEV.

The antibody is conjugated to BD Horizon™ 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™ V450 can be used in place of Pacific Blue™ conjugates.



**Analysis of CD62L on human lymphocytes.** Cells from lysed whole blood were stained with BD Horizon™ V450 Mouse Anti-Human CD62L and compared to lysed whole blood stained with BD Horizon™ V450 Mouse IgG1, κ Isotype Control (clone MOPC-21, Cat. No. 560373). The isotype control is represented by a dashed line and the V450 Mouse Anti-Human CD62L by the solid line. Flow cytometry was performed on a BD LSR™ II flow cytometry system.

**Preparation and Storage**

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

The antibody was conjugated with BD Horizon™ V450 under optimum conditions, and unreacted BD Horizon™ V450 was removed.

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

**Application Notes****Application**

Flow cytometry

Routinely Tested

**Suggested Companion Products**

Catalog Number	Name	Size	Clone
560373	V450 Mouse IgG1, κ Isotype Control	0.1 mg	MOPC-21

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## Product Notices

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use  $1 \times 10^6$  cells in a 100- $\mu$ l experimental sample (a test).
2. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
3. Please refer to [www.bdbiosciences.com/pharming/en/protocols](http://www.bdbiosciences.com/pharming/en/protocols) for technical protocols.
4. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at [www.bdbiosciences.com/colors](http://www.bdbiosciences.com/colors).
5. BD Horizon™ 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.
6. Pacific Blue™ is a trademark of Molecular Probes, Inc., Eugene, OR.
7. 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.

## References

- Kishimoto TK, Jutila MA, Butcher EC. Identification of a human peripheral lymph node homing receptor: a rapidly down-regulated adhesion molecule. *Proc Natl Acad Sci U S A*. 1990; 87(6):2244-2248. (Biology)
- Kishimoto TK, Warnock RA, Jutila MA, et al. Antibodies against human neutrophil LECAM-1 (LAM-1/Leu-8/DREG-56 antigen) and endothelial cell ELAM-1 inhibit a common CD18-independent adhesion pathway in vitro. *Blood*. 1991; 78(3):805-811. (Biology)
- Schlossman SF, Boumsell L, Gilks W, et al, ed. *Leukocyte Typing V: White Cell Differentiation Antigens*. New York: Oxford University Press; 1995. (Clone-specific)