Technical Data Sheet

BV480 Mouse Anti-Human CD62L

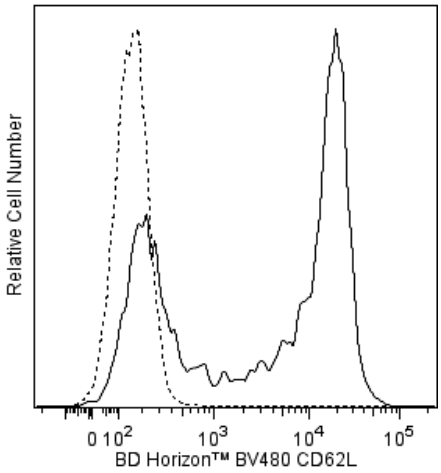
Product Information

Material Number:	**566111**
Alternate Name:	SELL; L-selectin; LSEL; LAM-1; LECAM-1; LEU8; LNHR; MEL-14; PLNHR; TQ-1
Size:	100 Tests
Vol. per Test:	5 µl
Clone:	DREG-56
Immunogen:	Supernatant from PMA-activated Human Peripheral Blood Leukocytes
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human
Workshop:	V S056
Storage Buffer:	Aqueous buffered solution containing BSA 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 was conjugated to BD Horizon BV480 which is part of the BD Horizon Brilliant™ Violet family of dyes. With an Ex Max of 436-nm and Em Max at 478-nm, BD Horizon BV480 can be excited by the violet laser and detected in the BD Horizon BV510 (525/40-nm) filter set. BV480 has less spillover into the BV605 detector and, in general, is brighter than BV510.



Flow cytometric analysis of CD62L expression on human peripheral blood lymphocytes. *Human whole blood was stained with either BD Horizon™ BV480 Mouse IgG1 κ Isotype Control (Cat. No. 565652; dashed line histogram) or BD Horizon BV480 Mouse Anti-Human CD62L antibody (Cat. No. 566111/566174;solid line histogram). The erythrocytes were lysed with BD FACS™ Lysing Solution (Cat. No. 349202). The fluorescence histogram showing CD62L expression (or Ig Isotype control staining) was derived from gated events with the forward and side light-scatter characteristics of intact lymphocytes. Flow cytometric analysis was performed using a BD LSRFortessa™ Cell Analyzer 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 BV480 under optimum conditions, and unconjugated antibody and free BD Horizon BV480 were removed.

Application Notes

Application

Flow cytometry	Routinely Tested

Recommended Assay Procedure:

For optimal and reproducible results, BD Horizon Brilliant Stain Buffer should be used anytime two or more BD Horizon Brilliant dyes are used in the same experiment. Fluorescent dye interactions may cause staining artifacts which may affect data interpretation. The BD Horizon Brilliant Stain Buffer was designed to minimize these interactions. More information can be found in the Technical Data Sheet of the BD Horizon Brilliant Stain Buffer (Cat. No. 563794).

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Suggested Companion Products

Catalog Number	Name	Size	Clone
554656	Stain Buffer (FBS)	500 mL	(none)
554657	Stain Buffer (BSA)	500 mL	(none)
563794	Brilliant Stain Buffer	100 Tests	(none)
565652	BV480 Mouse IgG1, k Isotype Control	50 µg	X40
566174	BV480 Mouse Anti-Human CD62L	25 Tests	DREG-56
555899	Lysing Buffer	100 mL	(none)
349202	BD FACS™ Lysing Solution	100 mL	(none)

Product Notices

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use 1 × 10^6 cells in a 100-µl experimental sample (a test).
2. An isotype control should be used at the same concentration as the antibody of interest.
3. BD Horizon Brilliant Violet 480 is covered by one or more of the following US patents: 8,575,303; 8,354,239.
4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
5. 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. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.
7. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

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. (Clone-specific: Inhibition)

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. (Immunogen: Flow cytometry, Inhibition)

Schlossman SF, Boumsell L, Gilks W, et al, ed. *Leukocyte Typing V: White Cell Differentiation Antigens.* Oxford: Oxford University Press; 1995(Clone-specific: Flow cytometry, Immunocytochemistry (cytospins), Immunohistochemistry)