

Technical Data Sheet

BV750 Mouse Anti-Human CD62L

Product Information

Material Number:	747199
Size:	50 µg
Clone:	SK11 (also known as Anti-Leu-8)
Alternative Name:	L-selectin; LECAM-1; SELL; LNHR; LSEL; LAM-1; LEU8; PLNHR; TQ-1; MEL-14
Reactivity:	Human (Tested in Development)
Isotype:	Mouse BALB/c IgG2a, κ
Immunogen:	Human Peripheral Blood T Lymphocytes
Application:	Flow cytometry (Qualified)
Concentration:	0.2 mg/ml
Workshop No.:	V S059
Entrez Gene ID:	6402
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.
Regulatory Status:	RUO

Description

The SK11 monoclonal antibody specifically binds to CD62L which is also known as, L-selectin, Leukocyte-endothelial cell adhesion molecule 1 (LECAM1/LECAM-1), Leukocyte adhesion molecule 1 (LAM1/LAM-1), Lymph node homing receptor (LNHR), Leu-8, or TQ1. CD62L is an ~80 kDa type I transmembrane glycoprotein that belongs to the Selectin/LECAM family. CD62L is differentially expressed on T cells, B cells, monocytes, granulocytes, and a subset of NK cells. The CD62L molecule is the human homolog of the mouse lymph node homing receptor, MEL-14. CD62L plays a role in leucocyte binding to inflamed endothelium and extravasation, as well as mediating lymphocyte homing into peripheral lymphoid tissues through high endothelial postcapillary venules. Soluble CD62L can result from the proteolytic cleavage of cell surface CD62L during cellular activation or inflammation.

The antibody was conjugated to BD Horizon™ BV750 which is part of the BD Horizon Brilliant™ Violet family of dyes. This dye is a tandem fluorochrome of BD Horizon BV421 with an Ex Max of 405-nm and an acceptor dye with an Em Max at 750-nm. BD Horizon Brilliant BV750 can be excited by the violet laser (405 nm) and detected with a 750/30 nm filter with a 740 nm long pass. Due to spectral differences between labeled cells and beads, using BD™ CompBeads can result in incorrect spillover values when used with BD Horizon BV750 reagents. Therefore, the use of BD CompBeads or BD CompBeads Plus to determine spillover values for these reagents is not recommended.

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 BV750 under optimal conditions that minimize unconjugated dye and antibody.

Recommended Assay Procedure

For optimal and reproducible results, BD Horizon Brilliant Stain Buffer should be used anytime two or more BD Horizon Brilliant dyes (including BD OptiBuild Brilliant reagents) 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).

Suggested Companion Products

Catalog Number	Name	Size	Clone
566368	BV750 Mouse IgG2a, κ Isotype Control	50 µg	G155-178
554656	Stain Buffer (FBS)	500 mL	
554657	Stain Buffer (BSA)	500 mL	
563794	Brilliant Stain Buffer	100 Tests	

555899	Lysing Buffer	100 mL
349202	Lysing Solution 10X Concentrate	100 NA
564219	Human BD Fc Block™	50 mg

Product Notices

1. This antibody was developed for use in flow cytometry.
2. The production process underwent stringent testing and validation to assure that it generates a high-quality conjugate with consistent performance and specific binding activity. However, verification testing has not been performed on all conjugate lots.
3. Researchers should determine the optimal concentration of this reagent for their individual applications.
4. An isotype control should be used at the same concentration as the antibody of interest.
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 wwwbdbiosciences.com/colors.
7. Please refer to wwwbdbiosciences.com/us/s/resources for technical protocols.
8. BD Horizon Brilliant Stain Buffer is covered by one or more of the following US patents: 8,110,673; 8,158,444; 8,575,303; 8,354,239.
9. BD Horizon Brilliant™ Violet 750 is covered by one or more of the following US patents: 8,158,444; 8,802,450; 8,575,303; 8,455,613; 8,227,187; 8,841,072; 8,110,673.

References

Diacovo T, Springer TA. CD62L (L-selectin) cluster report. In: Schlossman SF, Stuart F, Schlossman .. et al., ed. Leucocyte typing V : white cell differentiation antigens : proceedings of the fifth international workshop and conference held in Boston, USA, 3-7 November, 1993. Oxford: Oxford University Press; 1995; :1503-1504.

Gatenby PA, Kansas GS, Xian CY, Evans RL, Engleman EG. Dissection of immunoregulatory subpopulations of T lymphocytes within the helper and suppressor sublineages in man. *J Immunol.* 1982; 129(5):1997-2000.

Pitcher CJ, Hagen SI, Walker JM, et al. Development and homeostasis of T cell memory in rhesus macaque. *J Immunol.* 2002; 168(1):29-43.

van der Windt DJ, Dons EM, Montoya CL, et al. T-lymphocyte homeostasis and function in infant baboons: implications for transplantation. *Transplantation.* 2012; 25(2):218-228.

Yoshino N, Ami Y, Terao K, Tashiro F, Honda M. Upgrading of flow cytometric analysis for absolute counts, cytokines and other antigenic molecules of cynomolgus monkeys (*Macaca fascicularis*) by using anti-human cross-reactive antibodies. *Exp Anim.* 2000; 49(2):97-110.

Zola H. Leukocyte and stromal cell molecules : the CD markers. Hoboken, N.J.: Wiley-Liss; 2007; .

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