Technical Data Sheet

BV711 Mouse Anti-Human CD62L

Product Information

Material Number: 565039
Alternate Name: L-selectin; LECAM-1; SELL; LSEL; LAM-1; LEU8; PLNHR; TQ-1; MEL-14
Size: 25 Tests
Vol. per Test: 5 µl
Clone: SK11 (also known as Anti-Leu-8)
Immunogen: Human Peripheral Blood T Lymphocytes
Isotype: Mouse (BALB/c) IgG2a, κ
Reactivity: QC Testing: Human
Reported Reactivity: Rhesus, Cynomolgus, Baboon V S059
Storage Buffer: Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

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 leukocyte 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 BV711 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 711-nm. BD Horizon BV711 can be excited by the violet laser and detected in a filter used to detect Cy™5.5 / Alexa Fluor® 700-like dyes (e.g., 712/20-nm filter). Due to the excitation and emission characteristics of the acceptor dye, there may be moderate spillover into the Alexa Fluor® 700 and PerCP-Cy5.5 detectors. However, the spillover can be corrected through compensation as with any other dye combination.

Multiparameter flow cytometric analysis of CD62L expression on human peripheral blood leukocytes. Human whole blood was stained with either BD Horizon™ BV711 Mouse IgG2a, κ Isotype Control (Cat. No. 563345, Left Panel) or BD Horizon™ BV711 Mouse Anti-Human CD62L antibody (Cat. No. 565039/565040, Right Panel). Erythrocytes were lysed with BD FACS Lysing Solution (Cat. No. 349202). Two-parameter flow cytometric contour plots showing the correlated expression of CD62L (or Ig Isotype control staining) versus side light-scatter (SSC-A) signals were derived from gated events with the forward and side light-scatter characteristics of intact leukocyte populations. Flow cytometric analysis was performed using a BD™ LSR II Flow Cytometer 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™ BV711 under optimum conditions, and unconjugated antibody and free BD Horizon™ BV711 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. 563794/566349).

Suggested Companion Products

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<th>Name</th>
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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-µl experimental sample (a test).
2. An isotype control should be used at the same concentration as the antibody of interest.
3. 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.
4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
5. Alexa Fluor® is a registered trademark of Molecular Probes, Inc., Eugene, OR.
6. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.
7. BD Horizon Brilliant Violet 711 is covered by one or more of the following US patents: 8,110,673; 8,158,444; 8,227,187; 8,455,613; 8,575,303; 8,354,239.
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. Cy is a trademark of GE Healthcare.

References