Datasheet: MCA1076SBV710

BATCH NUMBER 64777521

Description:	MOUSE ANTI HUMAN CD62L:StarBright Violet 710
Specificity:	CD62L
Other names:	LECAM-1, L-SELECTIN
Format:	StarBright Violet 710
Product Type:	Monoclonal Antibody
Clone:	FMC46
Isotype:	IgG2b
Quantity:	100 TESTS/0.5ml

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry (1)	▪			Neat

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

(1)**Staining at lower temperatures generally requires longer incubation to reach antibody binding equilibrium, and this effect is more pronounced for StarBright Dyes due to their larger size. For optimum staining, Bio-Rad recommends incubating samples either overnight at 4°C or 1 hour at room temperature.**

Target Species

Human

Species Cross Reactivity

Reacts with: Bovine, Cynomolgus monkey, Rhesus Macaque, Dog

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Purified IgG conjugated to StarBright Violet 710 - liquid

Max Ex/Em

Fluorophore	Excitation Max (nm)	Emission Max (nm)
StarBright Violet 710	402	713

Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN_3) 1% Bovine Serum Albumin 0.1% Pluronic F68 0.1% PEG 3350 0.05% Tween 20
Approx. Protein Concentrations	For information on the concentration of our StarBright Dye conjugated reagents please visit our FAQ page.
Immunogen	PHA stimulated lymphoblasts
External Database Links	**UniProt:** P14151 Related reagents **Entrez Gene:** 6402 SELL Related reagents
Synonyms	LNHR, LYAM1
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells of the mouse NS1 myeloma cell line
Specificity	**Mouse anti Human CD62L antibody, clone FMC46** recognizes human CD62L, also known a L-selectin, a 74-95 kDa member of the selectin family of adhesion receptors, which acts as a ligand for both CD62P (P-selectin) and CD62E (E-selectin). Human CD62L is constitutively expressed on most leucocytes including monocytes, granulocytes, lymphocytes, NK cells, bone marrow myeloid progenitor cells and on a subset of thymocytes. CD62L plays an important role in leucocyte tethering and rolling on the endothelial cell surface and for the homing of naïve lymphocytes to lymph nodes and Peyers patches via HEV. Neutrophils require a constant supply of this molecule on the cell surface for migration into peripheral tissues and adhesion to activated endothelium at sites of inflammation, where CD62L is rapidly shed as soluble L-selectin, but surface expression still remains. The expression of CD62L is down regulated on lymphocytes and neutrophils by PMA stimulation.
Flow Cytometry	Use 5µl of the suggested working dilution to label $0.5x10^6$ cells in 100µl. Best practices suggest a 5 min centrifugation at 6,000g prior to sample application.

References

1. Zola, H. *et al.* (1991) The expression of sub-population markers on B cells: a re-evaluation using high-sensitivity fluorescence flow cytometry. Dis Markers. 9 (2): 103-18.

2. Sopp, P. & Howard, C.J. (1997) Cross-reactivity of monoclonal antibodies to defined human leucocyte differentiation antigens with bovine cells. Vet Immunol Immunopathol. 56 (1-2): 11-25.

3. Haanstra, K.G. *et al.* (2008) Characterization of naturally occurring CD4+CD25+ regulatory T cells in rhesus monkeys. Transplantation 85:1185-92.

4. Dalli, J. *et al.* (2008) Annexin 1 mediates the rapid anti-inflammatory effects of neutrophil-derived microparticles. Blood. 112 (6): 2512-9.

5. Raposo, R.A. *et al.* (2011) Protein Kinase C and NF-{kappa}B-Dependent CD4 Downregulation in Macrophages Induced by T Cell-Derived Soluble Factors: Consequences for HIV-1 Infection. J Immunol. 187: 748-59.

6. Hughes, S.F. *et al.* (2010) Total hip and knee replacement surgery results in changes in leukocyte and endothelial markers. J Inflamm (Lond). 7:2.

7. Bismarck, D. *et al.* (2012) Canine CD4+CD8+ double positive T cells in peripheral blood have features of activated T cells. Vet Immunol Immunopathol. 149: 157-66.

8. Hartley, A.N. & Tarleton, R.L. (2015) Chemokine receptor 7 (CCR7)-expression and IFNγ production define vaccine-specific canine T-cell subsets. Vet Immunol Immunopathol. 164 (3-4): 127-36.

9. Hayhoe, R.P. *et al.* (2006) Annexin 1 and its bioactive peptide inhibit neutrophil-endothelium interactions under flow: indication of distinct receptor involvement. Blood. 107 (5): 2123-30.

10. Urquhart, P. *et al.* (2007) Carbon monoxide-releasing molecules modulate leukocyte-endothelial interactions under flow. J Pharmacol Exp Ther. 321 (2): 656-62.

11. Aspinall, A.I. *et al.* (2010) CX(3)CR1 and vascular adhesion protein-1-dependent recruitment of CD16(+) monocytes across human liver sinusoidal endothelium. Hepatology. 51 (6): 2030-9.

12. Rothe, K. *et al.* (2017) Canine peripheral blood $CD4^{+}CD8^{+}$ double-positive Tcell subpopulations exhibit distinct Tcell phenotypes and effector functions. Vet Immunol Immunopathol. 185: 48-56.

13. Withers, S.S. *et al.* (2018) Multi-color flow cytometry for evaluating age-related changes in memory lymphocyte subsets in dogs. Dev Comp Immunol. 87: 64-74.

14. Hughes, S.F. *et al.* (2020) The role of phagocytic leukocytes following flexible ureterenoscopy, for the treatment of kidney stones: an observational, clinical pilots-study. Eur J Med Res. 25 (1): 68.

15. Svitek, N. *et al.* (2018) An Ad/MVA vectored *Theileria parva* antigen induces schizont-specific $CD8^{+}$ central memory T cells and confers partial protection against a lethal challenge. NPJ Vaccines. 3: 35.

16. Tucker, N. *et al.* (2023) Bovine blood and milk T-cell subsets in distinct states of activation and differentiation during subclinical *Staphylococcus aureus* mastitis. J Reprod Immunol. 156: 103826.

17. Yamauchi, A. *et al.* (2023) Negative Influence of Aging on Differentiation and Proliferation of CD8(+) T-Cells in Dogs. Vet Sci. 10 (9): 541

18. Lang, H.P. *et al.* (2025) Rabies vaccination induces a $CD4^{+}$ T_{EM} and $CD4^{+}CD8^{+}$ T_{EMRA} $T_{H}1$ phenotype in dogs. PLoS One. 20 (5): e0323823.

19. Foos, K.M. *et al.* (2026) Generation of functional canine TIL products for solid tumors.

	Front Immunol. 17: 1810955.
Storage	This product is shipped at ambient temperature. Store at +4°C. DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be stored protected from light.
Guarantee	12 months from date of despatch
Acknowledgements	This product is covered by U.S. Patent No. 10,150,841 and related U.S. and foreign counterparts.
Health And Safety Information	Material Safety Datasheet documentation #20471 available at: https://www.bio-rad-antibodies.com/SDS/MCA1076SBV710
Regulatory	For research purposes only

Related Products

Recommended Useful Reagents

HUMAN SEROBLOCK (BUF070A)
HUMAN SEROBLOCK (BUF070B)

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M486537:261016'

Printed on 03 Nov 2026

© 2026 Bio-Rad Laboratories Inc | Legal | Imprint