Technical Data Sheet

FITC Hamster Anti-Rat CD62L

Product Information

Material Number:	**554963**
Alternate Name:	L-selectin, LECAM-1
Size:	0.5 mg
Concentration:	0.5 mg/ml
Clone:	HRL1
Immunogen:	Rat LECAM-1 human IgG1 fusion protein
Isotype:	Armenian Hamster IgG2, λ1
Reactivity:	QC Testing: Rat
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The HRL1 antibody reacts with L-selectin (LECAM-1, CD62L), which is detected on a small percentage of thymocytes and on most neutrophils and peripheral lymphocytes. CD62L is a 62-kDa (on neutrophils) or 65-kDa (on lymphocytes) receptor, with lectin-like and epidermal growth factor-like domains, which binds to sialylated oligosaccharide determinants on high endothelial venules (HEV) in peripheral lymph nodes. This member of the selectin adhesion molecule family appears to be required for lymphocyte homing to peripheral lymph nodes and to contribute to neutrophil emigration at inflammatory sites. L-selectin is rapidly shed from lymphocytes and neutrophils upon cell activation. In the mouse, the level of CD62L expression distinguishes naive CD4+T cells from effector/memory T helper cells. HRL1 antibody inhibits the ligand-binding activity of Lselectin in in vitro assays and slows in vivo leukocyte rolling on microvascular endothelium.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
The antibody was conjugated with FITC under optimum conditions, and unreacted FITC was removed.
Store undiluted at 4° C and protected from prolonged exposure to light. Do not freeze.

Application Notes

Application

Flow cytometry	Routinely Tested

Recommended Assay Procedure:
For detection of L-selectin on peripheral blood leukocytes, use of EDTA as anti-coagulant is recommended; heparin should not be used.

Suggested Companion Products

Catalog Number	Name	Size	Clone
553964	FITC Hamster IgG2, λ1 Isotype Control	0.25 mg	Ha4/8

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
3. Although hamster immunoglobulin isotypes have not been well defined, BD Biosciences Pharmingen has grouped Armenian and Syrian hamster IgG monoclonal antibodies according to their reactivity with a panel of mouse anti-hamster IgG mAbs. A table of the hamster IgG groups, Reactivity of Mouse Anti-Hamster Ig mAbs, may be viewed at http://www.bdbiosciences.com/pharmingen/hamster_chart_11x17.pdf.
4. 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.

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References

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Tamatani T, Kitamura F, Kuida K, et al. Characterization of rat LECAM-1 (L-selectin) by the use of monoclonal antibodies and evidence for the presence of soluble LECAM-1 in rat sera. *Eur J Immunol.* 1993; 23(9):2181-2188.(Immunogen: Flow cytometry)