

**Analyte Specific Reagent.**

Analytical and performance characteristics are not established.

**SPECIFICITY**

CD62L (L-selectin; leucocyte adhesion molecule 1 [LAM-1]; lectin adhesion molecule 1 [LECAM-1]) is a member of the selectin family (1). As other selectins (CD62E, CD62P), CD62L (76 kDa) is a membrane-anchored Ca<sup>2+</sup>-dependent C-type lectin (2) that binds to cell-surface carbohydrate ligands. The roles of CD62L in the interaction of leucocytes with ligands on high endothelial venule cells in lymphoid tissue, on activated endothelium in non-lymphoid organs and in signal transduction are reviewed in Refs. 3 and 4.

CD62L is expressed by nearly all circulating resting leucocytes, by some spleen and bone marrow lymphocytes, as well as by some thymocytes and bone marrow myeloid cells (1). The expression level of CD62L on lymphocytes may be subject to control mechanisms such as downregulation and/or upregulation (2, 3, 5). On neutrophils, monocytes and their bone marrow precursors, CD62L is also downregulated by stimulation with granulocyte-macrophage colony stimulating factor (GM-CSF) (6).

The DREG56 monoclonal antibody (mAb) reacts with an epitope included in the lectin-like distal domain of the CD62L antigen (7, 8).

The DREG56 mAb has been assigned to the CD62L cluster of differentiation during the 5th International Workshop on Human Leucocyte Differentiation Antigens (HLDA) in Boston, USA, in 1993 ( WS Code: SO56) (2). It was used as a reference mAb (WS Code: ref.33) during the 6th HLDA in Kobe, Japan, in 1996 (1).

**REAGENT**

IOTest CD62L-PC7 Conjugated Antibody  
PN B30641 - 0.5 mL - Liquid

|                     |  |
|---------------------|--|
| <b>Clone</b>        | DREG56   |
| <b>Isotype</b>      | IgG1, Mouse  |
| <b>Immunogen</b>    | Activated human leucocytes   |
| <b>Hybridoma</b>    | SP2/0 x balb/c   |
| <b>Source</b>       | Ascites fluid or supernatant of in vitro cultured hybridoma cells. |
| <b>Purification</b> | Affinity chromatography  |
| <b>Conjugation</b>  | R Phycoerythrin-Cyanine 7 (PC7)                                    |
| <b>Molar Ratio</b>  | PC7 / Ig : 0.5 - 1.5   |
| <b>Fluorescence</b> | Excites at 488 nm<br>Emits at 770 nm                               |

**REAGENT CONTENTS**

This antibody is provided in phosphate-buffered saline, containing 0.1% sodium azide and 2 mg/mL bovine serum albumin. Concentration: See lot specific Certificate of Analysis at [www.beckmancoulter.com](http://www.beckmancoulter.com).

**STATEMENTS OF WARNING**

1. This reagent contains 0.1% sodium azide. Sodium azide under acid conditions yields hydrazoic acid, an extremely toxic compound. Azide compounds should be flushed with running water while being discarded. These precautions are recommended to avoid deposits in metal piping in which explosive conditions can develop. If skin or eye contact occurs, wash excessively with water.
2. Specimens, samples and all material coming in contact with them should be considered potentially infectious and disposed of with proper precautions.
3. Never pipet with mouth and avoid contact of samples with skin and mucous membranes.
4. Do not use antibody beyond the expiration date on the label.
5. Do not expose reagents to strong light during storage or incubation.
6. Avoid microbial contamination of reagents or incorrect results might occur.
7. Use good laboratory practices when handling this reagent.
8. Any change in the physical appearance of the reagents may indicate deterioration and the reagent should not be used.

**STORAGE AND HANDLING CONDITIONS AND STABILITY**

This reagent is stable up to the expiration date when stored at 2 – 8°C. Do not freeze. No reconstitution is necessary. This monoclonal antibody may be used directly from the vial. Bring reagent to 18 – 25°C prior to use.

**PRECAUTIONS**

Due to the tandem structure of the fluorochrome, PC7 also emits light at 575 nm. This secondary emission peak varies from lot-to-lot of PC7. Therefore, for multi-color analysis, the compensation matrix should be carefully checked when changing the lot of a PC7-conjugate.

**SELECTED RESEARCH REFERENCES**

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3. Stamenkovic, I., "The L-Selectin adhesion system", 1995, *Curr. Opin. Hematol.*, 2, 68-75
4. Crockett-Torabi, E., "Selectins and mechanisms of signal transduction", 1998, *J. Leukocyte Biol.*, 63, 1-13.
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8. Saunders, K.B., Tedder, T.F., "Reactivity of the workshop selectin panel mAb with specific structural domains", 1995, *Leucocyte Typing V, White cell Differentiation Antigens*, Schlossman S.F., et al, Oxford University Press, 1515-1516.

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