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 Ca²⁺-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-APC-Alexa Fluor 750 Conjugated Antibody
PN B26604 - 0.5 mL - Liquid

Clone
DREG56

Isotype
IgG1, Mouse

Immunogen
Activated human leucocytes

Hybridoma
SP2/0 x balb/c

Source
Ascites fluid or supernatant of in vitro cultured hybridoma cells.

Purification
Affinity chromatography

Conjugation
Allophycocyanin-Alexa Fluor 750 (APC-Alexa Fluor 750)

Molar Ratio
APC-Alexa Fluor 750 / Ig : 0.5 - 1.5

Fluorescence
Excites at 633/638 nm Emits at 775 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.

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 by 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, APC-Alexa Fluor 750 also emits light at 660 nm. This secondary emission peak varies from lot-to-lot of APC-Alexa Fluor 750. Therefore, for multi-color analysis, the compensation matrix should be carefully checked when changing the lot of a APC-Alexa Fluor 750-conjugate.

SELECTED RESEARCH REFERENCES


TRADEMARKS
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www.beckmancoulter.com

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