IOTest® CD11a-PE
PN IM1433U – 2 mL Liquid – 20 µL / test* – Clone 25.3

Analyte Specific Reagent.
Analytical and performance characteristics are not established.

SPECIFICITY
CD11a (αL integrin, LFA-1α chain) is a member of the integrin family. Like other leucocyte integrins (CD11b, CD11c, CD11d), CD11a is non-covalently associated with the β2 integrin subunit CD18 (1, 2). CD11a is a transmembrane glycoprotein of 170 kDa, mainly expressed by leucocytes including monocytes, macro-phages, neutrophils, eosinophils, basophils, B and T lymphocytes (3). Activated platelets also express CD11a and CD18 (4).

LFA-1 (CD11a / CD18) promotes homotypic adhesion between lymphoid cells and heterotypic adhesion of leucocytes to the vascular endothelium (5, 6). LFA-1’s known ligands are intercellular adhesion molecules (ICAM): ICAM-1 (CD54), ICAM-2 (CD102) and ICAM-3 (CD50) (7).

The 25.3.1 monoclonal antibody has been assigned to the CD11a cluster of differentiation at the 4th International Workshop on Human Leucocyte Differentiation Antigens in Vienna, Austria, in 1989 (WS Cod. N213) (8).

REAGENT
IOTest CD11a-PE Conjugated Antibody
PN IM1433U – 2 mL Liquid – 20 µL / test*.

Clone  25.3
Isotype  IgG1, mouse
Immunogen  Cytotoxic clone anti-class II (Tm – 20)
Hybridoma  X63-Ag8.653 x Balb/c
Source  Ascites fluid
Purification  Ion exchange or affinity chromatography
Conjugation  R-phycocerythrin (PE) is conjugated at 0.5 – 1.5 moles of PE per mole of Ig
Fluorescence  PE (orange-red) Excites at 486–580 nm Emits at 568 – 590 nm

REAGENT CONTENTS
This reagent is provided in phosphate-buffered saline, with 0.1% sodium azide (NaN₃) as preservative, and 2.0 mg / mL bovine serum albumin (BSA).

STATEMENT OF WARNINGS
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. Do not use antibody beyond the expiration date on the label.

3. Samples and all material coming in contact with them should be handled as if capable of transmitting infection and disposed of with proper precautions.

4. Never pipet by mouth and avoid contact of samples with skin and mucous membranes.

5. Minimize exposure of reagent to 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.

STORAGE CONDITIONS AND STABILITY
This reagent is stable up to the expiration date when stored at 2 – 8°C. Do not freeze. Minimize exposure to light.

EVIDENCE OF DETERIORATION
Any change in the physical appearance of this PE-labeled reagent (clear colorless to pinkish liquid) or any major variation in values obtained for control samples may indicate deterioration and the reagent should not be used.

REAGENT PREPARATION
No preparation is necessary. This PE-labeled reagent may be used directly from the vial. Bring reagent to 18 – 25°C prior to use.

SELECTED RESEARCH REFERENCES

PRODUCT AVAILABILITY
IOTest CD11a-PE Conjugated Antibody
PN IM1433U – 2 mL Liquid – 20 µL / test*.

PE is licensed under patent 4,520,110.

For additional information in the USA, call 800-526-7694.
Outside the USA, contact your local Beckman Coulter representative.

www.beckmancoulter.com

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(*) : 20 µL is the quantity of product sufficient to stain 5 x 10⁶ cells in a standard immunofluorescence assay