# IOTest® CD15-PE

## PN IM1954U – 2 mL Liquid – 20 µL / test* – Clone 80H5

**Analyte Specific Reagent.**

**Analytical and performance characteristics are not established.**

### SPECIFICITY

The CD15 antigen (Lewis x / Lex) is the lacto-N-(neo) fucopentaose III molecule. This carbohydrate epitope is carried by both glycolipids and glycoproteins expressed on cell membrane. CD15 antigen is strongly expressed by neutrophils, eosinophils, monocytes and normal myeloid precursor cells. It is not expressed on normal erythrocytes, platelets or lymphocytes.
80H5 antibody recognizes an early myeloid differentiation epitope which is found on metamyelocytes, myelocytes, promyelocytes and activated macrophages. It also reacts with granulocytes.
The 80H5 monoclonal antibody has been assigned to the CD15 cluster of differentiation during the fifth International Workshop on Human Leucocyte Differentiation Antigens held in Boston, USA in 1993 (1, 2).

### REAGENT

IOTest CD15-PE Conjugated Antibody
PN IM1954U – 2 mL Liquid – 20 µL / test*.

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| **Clone** | 80H5 |
| **Isotype** | IgM, mouse |
| **Immunogen** | Human granulocytes |
| **Hybridoma** | MOPC.315-43 x Balb/c spleen cells |
| **Source** | Ascites fluid |
| **Purification** | Ion exchange or affinity chromatography |
| **Conjugation** | R-phycoerythrin (PE) is conjugated at 0.5 – 1.5 moles of PE per mole of Ig. |
| **Fluorescence** | PE (orange-red)<br>Excites at 486–580 nm<br>Emits at 568 – 590 nm |

### REAGENT CONTENTS

This reagent is provided in phosphate-buffered saline, with 0.1% sodium azide ($NaN_3$) 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 monoclonal antibody may be used directly from the vial. Bring reagent to 18 – 25°C prior to use.

### SELECTED RESEARCH REFERENCES


1. Ball, E.D., "CD15 cluster workshop report", 1995, Leucocyte Typing V, White Cell Differentiation Antigens. Schlossman, S.F., et al., Eds., Oxford University Press, p. 790-794.
2. Ball, E.D., Persichetti, J., Roscoe, R., Nimgaonkar, M., Winkelstein, A., "Expression of CD15 on CD34+ cells of the bone marrow, peripheral blood, and ombilical cord blood", 1995, Leucocyte Typing V, White Cell Differentiation Antigens. Schlossman, S.F., et al., Eds., Oxford University Press, p. 795-798.


### PRODUCT AVAILABILITY

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

***www.beckmancoulter.com***

### TRADEMARKS




Manufactured by:
Immunotech, a Beckman Coulter Company
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(*): 20 µL is the quantity of product sufficient to stain $5 \times 10^5$ cells in a standard immunofluorescence assay