

# Monoclonal Antibody IOTest<sup>®</sup> CD32-PE

PN IM1935- 100 tests – Liquid - 20 µL/test - Clone 2E1

For Research Use Only. Not for use in diagnostic procedures.

## SPECIFICITY

The CD32 molecule (Fc $\gamma$ RII) represents a 40 kDa low affinity receptor for IgG with affinity for complexed or aggregated IgG (1).

This class of Fc $\gamma$ R consists of at least six isoforms originating from three different genes (Fc $\gamma$ RIIA, B and C) and alternative splicing. These receptors mediate a lot of functions including endocytosis, stimulation of secretion, cytotoxic responses and immunomodulation.

Fc $\gamma$ RII is expressed on every Fc $\gamma$ R-bearing cell with the exception of natural killer cells.

Expression of the Fc $\gamma$ RIIA gene is found on monocytes, neutrophils and platelets and at a low level on B lymphocytes. The Fc $\gamma$ RIIB comprises three isoforms: Fc $\gamma$ RIIB1, IIb2 and IIb3. The Fc $\gamma$ RIIB1 and IIb2 transcripts were found to be expressed on B lymphocytes (2). In peripheral blood 2E1 antibody reacts with monocytes, granulocytes, B cells and platelets (1).

The 2E1 monoclonal antibody was assigned to the CD32 cluster of differentiation at the 4th International Workshop on Human Leukocyte Differentiation Antigens in Vienna, Austria (1989) (1).

## REAGENT

IOTest CD32-PE Monoclonal Antibody  
PN IM1935 - 100 tests - Liquid - 20µL/test

<b>Clone</b>	2E1
<b>Isotype</b>	IgG2a, Mouse
<b>Immunogen</b>	K 562 cells (mouse erythroleukemia cell line)
<b>Hybridoma</b>	Myeloma NS1 x Balb/c spleen cells
<b>Source</b>	Ascites fluid
<b>Purification</b>	Protein A affinity chromatography
<b>Conjugation</b>	R Phycoerythrin (PE)
<b>Molar Ratio</b>	PE / Ig : 0.5 - 1.5
<b>Fluorescence</b>	Excites at 486-509 nm Emits at 568-590 nm

## REAGENT CONTENTS

This antibody is provided in phosphate-buffered saline, containing 0.1% sodium azide and 2 mg/mL bovine serum albumin.

## APPLICATION

Flow cytometry.

## 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 handled as if capable of transmitting infection 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.

## STORAGE CONDITIONS AND STABILITY

This reagent is stable up to the expiration date when stored at 2 – 8°C. Do not freeze.

## REAGENT PREPARATION

No reconstitution is necessary. This monoclonal antibody may be used directly from the vial. Bring reagent to 18 – 25°C prior to use.

## PROCEDURE

This reagent is designed for Flow Cytometry. Assay volume: 20 µL per 5 x 10<sup>5</sup> cells in one test, or per 100 µL whole blood.

## SELECTED RESEARCH REFERENCES

1. van de Winkel, J.G.J. and Anderson, C.L., "CD32 cluster workshop report", 1995, in Leucocyte Typing V, in Schlossman, S.F., et al Eds, Oxford University Press, 823-826.
2. van den Herik-Oudijk, I.E., Westerdal, N.A.C., Henriquez, N.V., Capel, P.J.A., Van de Winkel, J.G.J. " Functional Analysis of human Fc $\gamma$ RII (CD32) isoforms expression in B lymphocytes", 1994, J. Immunol., 152, 2, 574-585

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