

## Analyte Specific Reagent.

Analytical and performance characteristics are not established.

### SPECIFICITY

The CD23 antigen is a transmembrane glycoprotein with a molecular weight of 45 kDa, spatially associated with the major histocompatibility complex (MHC) class II. The CD23 molecule, also named FcεRII is the low affinity receptor for IgE.

The CD23 antigen is primarily expressed on B lymphocytes and monocytes. It is also present on a large variety of other cells such as T lymphocytes, eosinophils, platelets, Langerhans cells, a subset of thymic epithelial cells and neutrophils.

On B lymphocytes, CD23 expression is up-regulated upon activation and ultimately lost upon differentiation towards secreting-plasmocytes. A soluble form of CD23 (sCD23) exists and may be involved (like CD23) in the regulation of IgE synthesis and inflammatory phenomenon (1, 2).

The 9P25 monoclonal antibody was assigned to the CD23 cluster of differentiation at the 6th International Workshop on Human Leucocyte Differentiation Antigens in 1996 (Kobe-Japan) (3)

### REAGENT

IOTest CD23-PE Conjugated Antibody  
PN A33099 – Liquid 2 mL  
– 20 µL / test\*

**Clone** 9P25

**Isotype** IgG1 (kappa), mouse

**Immunogen** EBV-transformed lymphoblastoid cell line

**Hybridoma** NS1 x Balb/c

**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.

Excitation wavelength: 488 nm

Maximum emission wavelength: 575 nm

Main emission color: Orange-red.

### REAGENT CONTENTS

This reagent is provided in phosphate-buffered saline containing 0.1% sodium

azide (NaN<sub>3</sub>) as preservative, and 2 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. 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 reagent beyond the expiration date on the vial label.
5. Minimize exposure of reagent to light during storage or incubation.
6. Avoid microbial contamination of reagent or erroneous results may occur.
7. Use good laboratory practices when handling this reagent.

### STORAGE CONDITIONS AND STABILITY

This reagent is stable up to the expiration date printed on the vial label when stored at 2 – 8°C in the dark. Do not freeze. Minimize exposure to light.

### EVIDENCE OF DETERIORATION

Any change in the physical appearance of this PE-labeled reagent (clear, colorless to pink 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 reagent is used directly from the vial. Bring reagent to 18 – 25°C prior to use.

### SELECTED RESEARCH REFERENCES

1. Bonnefoy, J.Y., Aubry, J.P., Peronne, C., Wijdenes, J., Banchereau, J., "Production and characterization of a monoclonal antibody specific for the human lymphocyte low affinity receptor for IgE: CD23 is a low affinity receptor for IgE", 1987, J. Immunol., 9, 138, 2970-2978.
2. Goff, L.K., Armitage, R.J., Beverley, P.C.L., "Characterization of two CD23 monoclonal antibodies with reactivity distinct from other antibodies", 1988, Immunology, 65, 213-220.
3. Sarfati, M., "CD23 workshop panel report", 1996, Leucocyte Typing VI, White Cell Differentiation Antigens. Kishimoto, T., et al., Eds., Garland Publishing, 144-147.

### PRODUCT AVAILABILITY

IOTest CD23-PE Conjugated Antibody  
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– 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.

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\* 20 µL is the quantity of product sufficient to stain 5 x 10<sup>5</sup> cells in a standard immunofluorescence assay