

**PN IM3609****CD23-ECD****(9P25)****100 tests****10 µL / test**

**IOTest®**  
 Conjugated Antibodies

**For Research Use Only. Not For Use In Diagnostic Procedures.**

#### 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.

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) (1, 2).

#### REAGENT

Clone	9P25
Isotype	IgG1
Species	Mouse
Immunogen	EBV-transformed lymphoblastoid cell line
Hybridoma	NS1 x Balb/c
Source	Ascites fluid
Purification	Ion exchange or affinity chromatography
Conjugation	R-phycoerythrin covalently linked to Texas Red (PE-TxR or ECD) is conjugated at 0.5–1.5 moles of ECD per mole of Ig. Excitation wavelength: 488 nm Maximum emission wavelength: 613 nm Main emission color: Red
Buffer	2 mg/mL bovine serum albumin in phosphate-buffered saline containing 0.1% sodium azide.

#### APPLICATION

Study of CD23-expressing cells by flow cytometry, including activated CD23 expressing cells during hematopoiesis, and study of B-lineage chronic lymphocytic leukemia and lymphoma (3).

#### 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 extensively 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

#### 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.

#### 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.

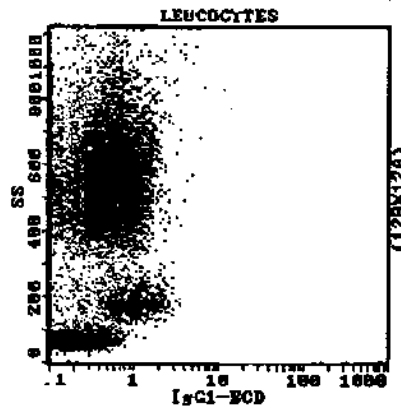
Assay volume: 10 µL per  $5 \times 10^5$  cells in one test or per 100 µL whole blood.

This reagent works with either a wash or a no-wash lysing procedure. It is especially suitable with ImmunoPrep™ Reagent (PN 7546999) within COULTER® TQ-Prep™ Workstation.

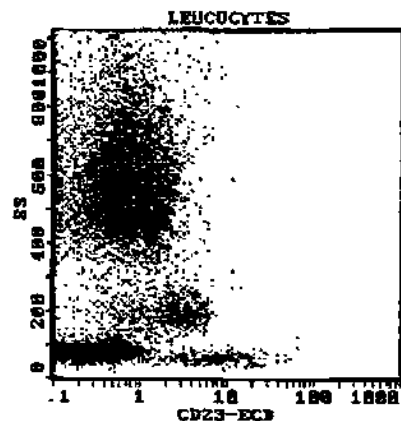
#### EXAMPLE DATA

The histograms below are biparametric representations (Side Scatter versus Fluorescence Intensity) of a lysed normal whole blood sample. All leucocytes are shown. Acquisition is with a COULTER® EPICS® XL™ flow cytometer. Analysis is with SYSTEM II™ software.

**Figure 1:** Staining with IgG1-ECD Isotypic Control (PN IM2714).



**Figure 2:** Staining with CD23-ECD Conjugated Antibody (PN IM3609).



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PARTNERS IN CELL ANALYSIS



**IMMUNOTECH**  
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**(9P25)**

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**SELECTED RESEARCH REFERENCES**

1. Bonnefoy, J.Y., Aubry, J.P., Peronne, C., Wijdanes, 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, 2970-2976.
2. Goff, L.K., Armitage, R.J., Beverley, P.C.L., "Characterization of two CD23 monoclonal antibodies with reactivity distinct from other antibodies within this cluster of differentiation", 1988, *Immunology*, **65**, 213-220.
3. Jennings, C.D., Foon, K.A., "Recent advances in flow cytometry: application to the diagnosis of hematologic malignancy". 1997, *Blood*, **8**, 90, 2863-2892.

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