PN IM0529 **CD23 - FITC** **(9P25)**
100 tests
20 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 asociated with the major histocompatibility complex (MHC) class II. The CD23 molecule, also named Fc εRII 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 secreting-plasmocytes differentiation. A soluble form of CD23 (sCD23) exists and may be involved (like CD23) in the regulation of IgE synthesis and inflammatory phenomenom.

The 9P25 monoclonal antibody was assigned to the CD23 cluster of differentiation at the VIth International Workshop on Human Leucocytes Differentiation Antigens in 1996 (Kobe-Japan).

REAGENT

Clone	9P25
Isotype	IgG1 mouse
Immunogen	EBV transformed lymphoblastoid cell line
Hybridoma	NS1 x Balb/c spleen cells
Source	Ascites fluid
Purification	Ion exchange or affinity chromatography
Conjugation	FITC: Fluorescein isothiocyanate (FITC) is conjugated at 4 - 6 moles of FITC per mole of IgG.

Excitation wavelength: 488 nm
Maximum emission wavelength: 525 nm
Main emission color: Green
Buffer 2 mg/mL bovine serum albumin in phosphate-buffered saline containing 0.1% sodium azide.

APPLICATION
Flow cytometry
Studies of CD23 expressing cells

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 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.

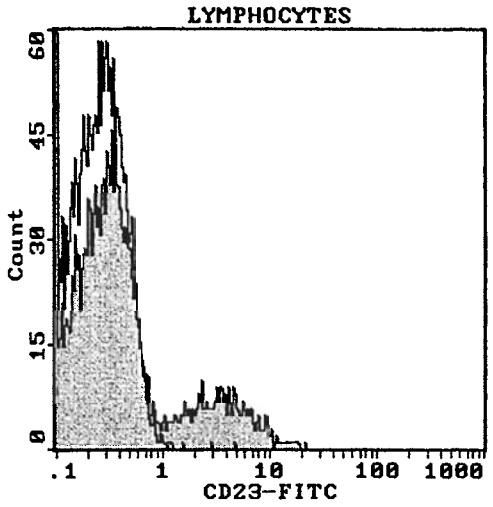
STORAGE CONDITIONS AND STABILITY
Each reagent is stable up to the expiration date when stored at 2-8 C. Do not freeze. Minimize exposure to light.

REAGENT PREPARATION
No reconstitution is necessary. This monoclonal antibody may be used directly from the vial. Bring reagent to 20 - 25 C prior to use.

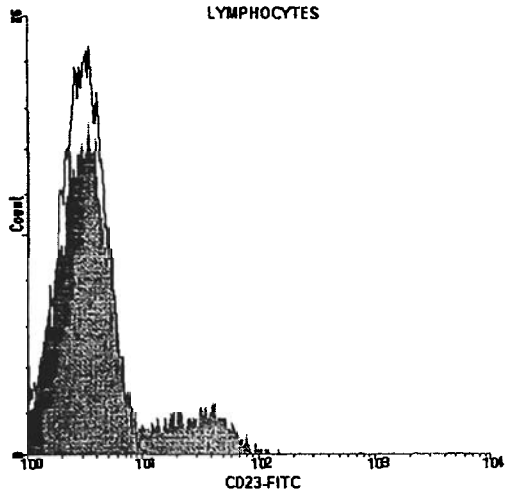
PROCEDURE
This reagent is designed for Flow Cytometry.
Assay volume: 10 µL/5 x 10^5 cells / test or 100µL whole blood.
A wash is required to yield optimal results.

EXAMPLE DATA
The histograms below are monoparametric representations (Count versus Fluorescence Intensity) of lyzed normal whole blood sample. Staining is with CD23-FITC monoclonal antibody (PN IM0529) gated on lymphocytes. The isotypic control labeling is underneath in light .

Acquisition is with a COULTER R EPICS R XL TM flow cytometer.
Analysis is with the XL System II TM software.



Acquisition is with a Becton Dickinson FACScan TM flow cytometer.
Analysis is with the LYSYS II TM software.



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SELECTED RESEARCH REFERENCES

1-[1178] 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. of Immunology, 9, 138, 2970-2978.
2-[703] Goff, L.K., Armitage, R.J., Beverley, P.C.L., "Characterizaiton of two CD23 monoclonal antibodies with reactivity distinct from other antibodies within this cluster of differentiation", 1988, Immunology, 65, 213-220.

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