

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

### SPECIFICITY

The CD24 antigen is a glycosyl-phosphatidylinositol-linked membrane sialoglycoprotein, with a molecular weight of 35-45 kDa. CD24 is present on B cells, from the stage pre-B to the mature B cell stage, but not on plasma cells. It is expressed on mature granulocytes and on a variety of epithelial cell types.

The ALB9 monoclonal antibody has been assigned to the CD24 cluster of differentiation at the sixth International Workshop on Human Leucocyte Differentiation Antigens held in Kobe, Japan, in 1996 (1).

### REAGENT

IOTest CD24-PC5 Conjugated Antibody  
PN IM2645 – 100 tests – Liquid – 10 µL / test.

<b>Clone</b>	<b>ALB9</b>
<b>Isotype</b>	IgG1 mouse
<b>Immunogen</b>	Human bone marrow malignant cells from a non-B, non-T acute leukemia
<b>Hybridoma Source</b>	NS1 x Balb/c spleen cells Ascites fluid
<b>Purification</b>	Ion exchange or affinity chromatography
<b>Conjugation</b>	R-phycoerythrin-Cyanine 5 (PC5)
<b>Molar Ratio</b>	PC5 / Ig : 0.5 – 1.5
<b>Fluorescence</b>	PC5 (Deep Red) Excites at 486–580 nm Emits at 660–680 nm

### REAGENT CONTENTS

This antibody is provided in phosphate-buffered saline pH 7.4, containing 0.1% sodium azide and 2 mg/mL bovine serum albumin.

### APPLICATION

Flow cytometry  
Studies of peripheral blood B cells.  
Characterization of haematopoietic differentiation.

### 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.
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 in the dark. 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.

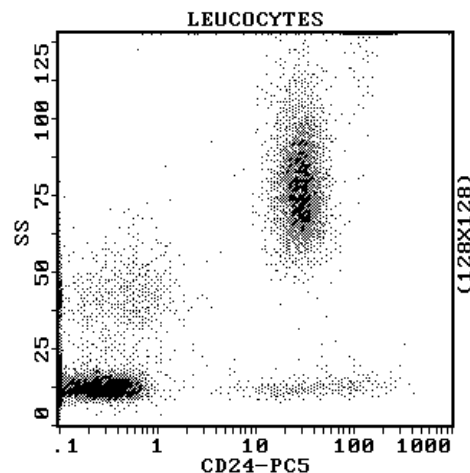
### PROCEDURE

This reagent is designed for flow cytometry. A wash is required to yield optimal results  
Assay volume: 10 µL per 5 x 10<sup>5</sup> cells in one test, or per 100 µL whole blood.

### EXAMPLE DATA

The histogram below is a biparametric representation (Side Scatter *versus* Fluorescence Intensity) of lyzed normal whole blood sample. Staining is with CD24-PC5 monoclonal antibody gated on leucocytes. The isotypic control labeling (see catalog for PN) is not shown.

Acquisition is with a COULTER<sup>®</sup> EPICS<sup>®</sup> XL<sup>™</sup> flow cytometer. Analysis is with the XL System II<sup>™</sup> software.



### SELECTED RESEARCH REFERENCES

1. Chappel, S., Kay, R., Humphries, R.K., "CD24 Workshop Panel report", 1997, Leucocyte Typing VI, White Cell Differentiation Antigens, Kishimoto, T., et al., Eds., Garland Publishing, Inc., 147-149.

### TRADEMARKS AND PATENTS

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