

# Monoclonal Antibody IOTest® CD25-PC5.5

PN A79386 – 50 tests – Liquid – 10 µL/test\* – Clone B1.49.9

## Analyte Specific Reagent.

Analytical and performance characteristics are not established.

### SPECIFICITY

The CD25 molecule, historically known by the name "Tac antigen", is the alpha chain of the Interleukine-2 receptor (IL-2R alpha), a 55 kDa transmembranous glycoprotein (1). The high affinity receptor for IL-2 is made up of three chains: alpha (IL-2R alpha, Tac, p55 or CD25), beta (IL-2R beta, p75 or CD122), and gamma (IL-2R gamma, p64 or CD132). The CD25 antigen is expressed on T CD4<sup>+</sup> circulating lymphocytes and is not detected on CD8<sup>+</sup> circulating lymphocytes (2). However, all the T lymphocytes express CD25 when activated. A sub-population of B lymphocytes (CD20<sup>+</sup>) expresses the CD25 antigen. Circulating granulocytes, monocytes, NK cells, platelets and red blood cells do not express the CD25 molecule (1). The monoclonal antibody B1.49.9 was assigned to CD25 during the 2nd HLDA Workshop on Human Leucocyte Differentiation Antigens, held in Boston, USA, in 1984 (WS Code: T141, Section T) (3).

### REAGENT

IOTest CD25-PC5.5  
Conjugated antibody  
PN A79386 - 50 tests - Liquid - 10 µL/test\*

<b>Clone</b>	B1.49.9
<b>Isotype</b>	IgG2a, Mouse
<b>Immunogen</b>	Alloactivated T lymphocytes
<b>Hybridoma</b>	NS1 x spleen B cells
<b>Source</b>	Ascites fluid
<b>Purification</b>	Protein A affinity chromatography
<b>Conjugation</b>	R Phycoerythrin-Cyanine 5.5 (PC5.5)
<b>Molar Ratio</b>	PC5.5 / Ig : 0.5 - 1.5
<b>Fluorescence</b>	Excites at 488 nm Emits at 692 nm

### REAGENT CONTENTS

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

### 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.

### PRECAUTIONS

Due to the tandem structure of the fluorochrome, PC5.5 also emits light at 575 nm. This secondary emission peak varies from lot-to-lot of PC5.5. Therefore, for multi-color analysis, the compensation matrix should be carefully checked when changing the lot of a PC5.5-conjugate.

### SELECTED RESEARCH REFERENCES

1. Sasaki, Y., Sugamura, K., "CD25 Workshop panel report", 1997, Leucocyte Typing VI, White Cell Differentiation Antigens. Kishimoto, T., et al, Eds., Garland Publishing, Inc., 802-804.
2. Kaplan, D., "Autocrine secretion and the physiological concentration of cytokines", 1996, Immunol. Today, 7, 17, 303-304.
3. Haynes, B.F., "Summary of T cell studies performed during the second International Workshop and Conference on Human Leukocytes Differentiation Antigens", 1986, Leucocyte Typing II, Human T lymphocytes, Reinherz, E.L., et al. Eds., Springer-Verlag, 3-30.

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