

Analyte Specific Reagent.

Analytical and performance characteristics are not established.

SPECIFICITY

The high affinity IL-2 receptor (IL-2R) is a trimeric complex composed of three polypeptides chains, α (IL-2R α , Tac, p55, or CD25), β (IL-2R β , p75, or CD122), and γ (IL-2R γ or p64). T lymphocytes express an intermediate-affinity IL-2 receptor that comprises β/γ or α/γ chain complex. IL-2R β and IL-2R γ chains are involved in IL-2-mediated cellular signaling (1 – 3). The CD25 molecule (known as Tac antigen and interleukine-2 receptor α IL-2R α) is highly expressed on regulatory CD4-positive T lymphocytes and undetected on resting CD8 positive lymphocytes. However, all activated T lymphocytes express the CD25 protein. A subset of B lymphocytes (CD20 positive) expresses CD25 antigen. Granulocytes, monocytes, NK cells, platelets and erythrocytes do not express CD25 (4). The B1.49.9 monoclonal antibody (mAb) has been assigned to the CD25 cluster of differentiation during the 2nd HLDA Workshop on Human Leucocyte Differentiation Antigens in Boston, U.S.A., in 1984 (WS Code: T141, Section T) (5).

REAGENT

IOTest CD25-PC7 Conjugated antibody
PN A52882 - 1 mL - Liquid - 10 µL/test

Clone	B1.49.9
Isotype	IgG2a, Mouse
Immunogen	Human alloactivated T lymphocytes (FC2)
Hybridoma Source	NS1 x balb/c Ascites fluid or supernatant of in vitro cultured hybridoma cells.
Purification	Ion exchange or affinity chromatography
Conjugation	R Phycoerythrin-Cyanine 7 (PC7)
Molar Ratio	PC7 / Ig : 0.5 - 1.5
Fluorescence	Excites at 488 nm Emits at 770 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

- 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.

- Specimens, samples and all material coming in contact with them should be considered potentially infectious and disposed of with proper precautions.
- Never pipet by mouth and avoid contact of samples with skin and mucous membranes.
- Do not use antibody beyond the expiration date on the label.
- Do not expose reagents to strong light during storage or incubation.
- Avoid microbial contamination of reagents or incorrect results might occur.
- Use good laboratory practices when handling this reagent.

STORAGE AND HANDLING CONDITIONS AND STABILITY

This reagent is stable up to the expiration date when stored at 2 – 8°C. Do not freeze. 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, PC7 also emits light at 575 nm. This secondary emission peak varies from lot-to-lot of PC7. Therefore, for multi-color analysis, the compensation matrix should be carefully checked when changing the lot of a PC7-conjugate.

SELECTED RESEARCH REFERENCES

- Sasaki, Y., Sugamura, K., "CD25 workshop panel report", 1996, Leucocyte Typing VI, White cell Differentiation Antigens, Kishimoto, T., et al, Eds., Garland Publishing, Inc., 802-804.
- Callard, R.E., Gearing, A.J.H., "The cytokines and their receptors : Interleukins IL-2", 1994, The Cytokine FactsBook, Academic Press, 39-45.
- Kaplan, D., "Autocrine secretion and the physiological concentration of cytokines", 1996, Immunol. Today, 17, 303-304
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- 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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