

IOtest®
CD25-ECD

6607112 - 100 tests

PN 4238109-C



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

SPECIFICITY

The IL-2 receptor consists of at least three distinct membrane components: the α chain (IL-2R α , Tac, CD25), the β chain (IL-2R β , p75, CD122), and the γ chain (IL-2R γ). CD25 is undetectable on resting T cells but is induced upon T-cell activation. The molecular weight of the recognized antigen is 55 kDa.^{1,2}

B1.49.9 recognizes activated T and B cells. CD25 is absent on thymocytes, resting T and B cells, and NK cells. B1.49.9 does not inhibit the in vitro IL2 dependent proliferation.^{3,4}

B1.49.9 antibody was evaluated during the 3rd Workshop on Human Leukocyte Differentiation Antigens in Oxford (1986).

REAGENTS

IOtest CD25-ECD Conjugated Antibodies
PN 6607112 - 100 tests - 10 μ L/test

CLONE: B1.49.9

ISOTYPE: IgG2a

IMMUNOGEN: Transfected murine cell line

HYBRIDOMA: Myeloma X63 Ag8.653 x BALB/c spleen cells

SOURCE: Ascites fluid

PURIFICATION: Ion exchange or affinity chromatography

CONJUGATION: ECD is conjugated at a Molar Ratio ECD/Ig: 0.5-1.5
Excitation wavelength at 486-575 nm
Emission wavelength at 610-635 nm

BUFFER: 2 mg/mL bovine serum albumin in phosphate-buffered saline containing 0.1% sodium azide.

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. Use Good Laboratory Practices (GLP) when handling reagent.
7. Harmful if swallowed.
8. After contact with skin, wash immediately with plenty of water.

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Made in USA

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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.

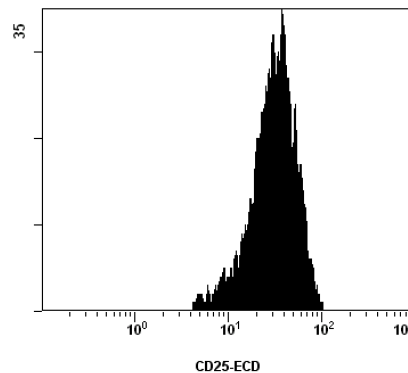
PROCEDURE

This reagent is designed for flow cytometry. Assay volume: 10 μ L per 5 x 10⁵ cells in one test, or per 100 μ L whole blood. A wash is required to yield optimal results.

EXAMPLE DATA

The histogram shown is a monoparametric representation (Count versus Fluorescence Intensity) of a cell line sample stained with CD25-ECD monoclonal antibody (PN 6607112) and gated on lymphocytes.

Figure 1:
Acquisition with a COULTER® EPICS® XL™/XL-MCL™ flow cytometer. Analysis with EXPO™32 ADC software.



SELECTED RESEARCH REFERENCES

1. Trowbridge, I., "Interleukin 2 receptor proteins", 1987, Nature, 327, 461.
2. Smith, K.A., "The biomolecular structure of the IL2 receptor", 1988, Immunol. Today, 2, 9, 36.
3. Hemler, M.E., Brenner, M.B., McLean, J.M., Strominger, J.L., "Antigenic stimulation regulates the level of expression of interleukin 2 receptor on human T cells", 1984, Proc. Nat. Acad. Sci., 81, 2172-2175.
4. Taniguchi, T., Minami, Y., "The IL-2/IL-2 receptor system: a current overview", 1993, Cell, 73, 5-8.

TRADEMARKS

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