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 polypeptide chains, \( \alpha \) (IL-2R\( \alpha \)), Tac, p55, or CD25), \( \beta \) (IL-2R\( \beta \)), p75, or CD122), and \( \gamma \) (IL-2R\( \gamma \)). T lymphocytes express an intermediate-affinity IL-2 receptor that comprises \( \beta \) \( \gamma \) or \( \alpha \)\( \beta \gamma \) chain complex. IL-2R\( \beta \) and IL-2R\( \gamma \) chains are involved in IL-2-mediated cellular signaling (1 – 3).

The CD25 molecule is highly expressed on regulatory CD4-positive T lymphocytes and undetected on resting CD8-positive lymphocytes. However, 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-APC-Alexa Fluor 750
Conjugated antibody
PN B13979 – 0.5 mL - Liquid - 10 µL/test – Clone B1.49.9

Clone
B1.49.9
Isotype
IgG2a, Mouse
Immunogen
Aliactivated T lymphocytes
Hybridoma
NS1 x Balb/c
Source
Ascites fluid or supernatant of in vitro cultured hybridoma cells.

Purification
Affinity chromatography
Conjugation
Allophycocyanin-Alexa Fluor 750 (APC-Alexa Fluor 750)
Molar Ratio
APC-Alexa Fluor 750 / Ig : >1
Fluorescence
Excites at 633/638 nm
Emits at 775 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 considered potentially infectious 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 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, APC-Alexa Fluor 750 also emits light at 660 nm. This secondary emission peak varies from lot-to-lot of APC-Alexa Fluor 750. Therefore, for multi-color analysis, the compensation matrix should be carefully checked when changing the lot of a APC-Alexa Fluor 750-conjugate.

SELECTED RESEARCH REFERENCES

TRADEMARKS
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MANUFACTURED BY:
IMMUNOTECH SAS
130, avenue de Latte de Tassigny
B.P. 177 - 13276 Marseille Cedex 9
France

For additional information in the USA, call 800-526-7694.
Outside the USA, contact your local Beckman Coulter representative.

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