Analyte Specific Reagent.
Analytical and performance characteristics are not established.

SPECIFICITY

T lymphocytes constitute the majority of human peripheral blood lymphocytes (PBL) (1). T lymphocytes are characterized by the expression of the CD3 antigen (1, 2). The CD3 antigen is a complex of 5 polypeptide chains: γ, δ, ε, ζ, and η associated with the T-cell receptor (TCR) complex (3). The CD3 chains are clustered in a group of two invariant dimers, γδ and εζ associated with a variable dimer which consists of ζ homodimers, or γδζ heterodimers (γζ being the γ chain of the Fc receptors), or γζFeR homodimers (3–5). The CD3 complex associated with the TCR is involved in the recognition of peptides bound to the major histocompatibility complex class I and II during the immune response (6).

The CD3 antigen is expressed by mature T lymphocytes and by a subset of thymocytes (7). The UCHT1 monoclonal antibody reacts with the ε chain of the CD3 complex (8). It has been assigned to the CD3 cluster of differentiation at the 1st International Workshop on Human Leucocyte Differentiation Antigens in Paris, France, in 1982 (9).

REAGENT

IOTest® CD3-APC-Alexa Fluor® 750
Conjugated Antibody
PN A66329 - 50 tests - Liquid - 10 µL/test*

Clone
UCHT1

Isotype
IgG1 kappa, Mouse

Immunogen
T cell line + IL 2

Hybridoma
NS1 x Balb/c

Source
Asics fluid

Purification
Ion exchange or affinity chromatography

Conjugation
Allophycocyanin
- Alexa Fluor 750
(APC-Alexa Fluor 750)
(IgG 0.5 – 1.5)

Molar Ratio
APC-Alexa Fluor 750 / Ig: 0.5 - 1.5

Fluorescence
Excites at 633 nm
Emits at 783 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 the expiration date on the label.

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, 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 fluorescence experiments, the compensation matrix should be carefully checked when changing the lot of a APC-Alexa Fluor 750-conjugate.

SELECTED RESEARCH REFERENCES


TRADEMARKS AND PATENT

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