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 Tcell receptor (TcR) complex (3). The CD3 chains are clustered in a group of two invariant dimers, γδ and  δε associated with a variable dimer which consists of ζ homodimers, or ζη, or ζεFcR heterodimers (4FcR being the γ chain of the Fc receptors), or γFcR 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-Krome Orange

Conjugated antibody

PN B00068 - 0.5 mL - Liquid - 10 µL/test* – Clone UCHT1

**Clone**

UCHT1

**Isotype**

IgG1 kappa, Mouse

**Immunogen**

T cell line + IL2

**Hybridoma**

NS1 x balb/c

**Source**

Ascites fluid

**Purification**

Affinity chromatography

**Conjugation**

Krome Orange (Krome Orange)

**Molar Ratio**

Krome Orange / Ig: 42.7-66

**Fluorescence**

Excites at 405 nm Emits at 528 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 or incorrect results might occur.

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.

**SELECTED RESEARCH REFERENCES**


**TRADEMARKS**

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**MANUFACTURED BY :**

IMMUNOTECH SAS

a Beckman Coulter Company

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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Printed in France.

Made in France.

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