**IOTest® CD3-FITC / CD25-PE**

PN IM2667U – 1 mL Liquid – 20 µL / test*

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

## REAGENT COMPONENTS

<table>
<thead>
<tr>
<th>Specificity</th>
<th>Specifications of constituent 1</th>
<th>Specifications of constituent 2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Clone</strong></td>
<td>UCHT1</td>
<td>B1.49.9</td>
</tr>
<tr>
<td><strong>Hybridoma</strong></td>
<td>NE1 x Balb/c</td>
<td>NS1 x Balb/c</td>
</tr>
<tr>
<td><strong>Immunogen</strong></td>
<td>Peripheral blood lymphocytes</td>
<td>Human alloactivated T lymphocytes (FC2)</td>
</tr>
<tr>
<td><strong>Ig Chain</strong></td>
<td>IgG1</td>
<td>IgG2a</td>
</tr>
<tr>
<td><strong>Species</strong></td>
<td>Mouse</td>
<td>Mouse</td>
</tr>
<tr>
<td><strong>Source</strong></td>
<td>Ascites fluid</td>
<td>Ascites fluid</td>
</tr>
<tr>
<td><strong>Purification</strong></td>
<td>Ion exchange or affinity chromatography</td>
<td>Ion exchange or affinity chromatography</td>
</tr>
<tr>
<td><strong>Conjugation</strong></td>
<td>FITC (Fluorescein isothiocyanate)</td>
<td>PE (Phycoerythrin)</td>
</tr>
<tr>
<td><strong>Molar Ratio</strong></td>
<td>FITC / Ig: 3 – 6</td>
<td>PE / Ig: 0.5 – 1.5</td>
</tr>
<tr>
<td><strong>λ Excitation range</strong></td>
<td>468 – 509 nm</td>
<td>486 – 580 nm</td>
</tr>
<tr>
<td><strong>λ Emission range</strong></td>
<td>504 – 541 nm (green)</td>
<td>568 – 590 nm (Orange)</td>
</tr>
<tr>
<td><strong>Buffer</strong></td>
<td>Buffer (PBS pH 7.2) plus 2 mg / mL BSA and 0.1% NaN3</td>
<td></td>
</tr>
</tbody>
</table>

### SPECIFICITY

The CD3 antigen is a complex of 5 polypeptide chains: γ, δ, ε, ζ and η associated with the T-cell receptor (TCR) complex (1). 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 εζ/η, or εζ/γFCR heterodimers (γFCR being the γ chain of the Fc receptors), or γFCR homodimers (1-3). The CD3 complex associated with the TCR is involved in the recognition of peptides bound to the major histocompatibility complex (MHC) class I and II, during the immune response (4).

The CD3 antigen is expressed by mature T lymphocytes and by a subset of thymocytes (5). The UCHT1 monoclonal antibody reacts with the ε chain of the CD3 complex (6). It has been assigned to the CD3 cluster of differentiation during the 1st International Workshop on Human Leucocyte Differentiation Antigens (HLDA) in Boston, U.S.A., in 1984 (WS Code: T141, Section T) (12).

### REAGENT

**IOTest Conjugated Antibodies**

CD3-FITC / CD25-PE
PN IM2667U – 1 mL liquid – 20 µL / test*.

### STATEMENT OF WARNINGS

1. This reagent contains 0.1% sodium azide. Sodium azide under acid conditions yields hydrazoic acid, an extremely toxic compound. Azide should be flushed with running water while being discarded. Avoid deposits in metal piping in which azide can occur.
2. Do not use reagent beyond the expiration date when stored at 2 – 8°C. Do not freeze.
3. Do not expose reagents to strong light.
4. Let it come to room temperature (18 – 25°C) before use.
5. Use general 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. Minimize exposure to light.

### EVIDENCE OF DETERIORATION

Any change in the physical appearance of this FITC- and PE-labeled combination (clear, yellowish-green to pinkish liquid) or any major variation in values obtained for control samples may indicate deterioration and the reagent should not be used.

### 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


(*) Image: [Image Link]

† Image: [Image Link]

5 x 10⁹ cells in a standard immunofluorescence assay.


PRODUCT AVAILABILITY
IOTest Conjugated Antibodies
CD3-FITC / CD25-PE
PN IM2667U – 1 mL liquid – 20 µL / test*.  
PE is licensed under patent 4,520,110.
For additional information in the USA, call 800-526-7694.
Outside the USA, contact your local Beckman Coulter representative.
www.beckmancoulter.com

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