**IOTest® CD28-FITC**

PN IM1236U – 2 mL Liquid – 20 µL / test* – Clone CD28.2

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**Analyte Specific Reagent.**

Analytical and performance characteristics are not established.

**SPECIFICITY**

The CD28 antigen is a homodimeric, disulfide-linked molecule, with a molecular weight of 44 kDa (1, 2). This antigen is involved in the interaction of T lymphocytes with B lymphocytes, through its counter-receptors, the B7 / BB-1 (CD80) and B70 / B7-2 (CD86) glycoproteins. It provides a major co-stimulatory signal for T cell activation, proliferation and lymphokine production. CD28 is associated to a PI3 kinase activity (2).

CD4+ T lymphocytes express CD28 more frequently as CD8+ T lymphocytes do (1, 3). The CD28 antigen is also present on plasma cells and thymocytes. The CD28.2 monoclonal antibody has been assigned to the CD28 cluster of differentiation at the 5th International Workshop on Human Leucocyte Differentiation Antigens in Boston, USA, in 1993 (1).

**REAGENT**

**IOTest CD28-FITC Conjugated Antibody**

PN IM1236U – 2 mL Liquid – 20 µL / test*.

**Clone**

CD28.2

**Isotype**

IgG1, mouse

**Immunogen**

Transfected murine cell line

**Hybridoma**

X63-Ag8.653 x Balb/c

**Source**

Ascites fluid

**Purification**

Ion exchange or affinity chromatography

**Conjugation**

FITC (Fluorescein isothiocyanate) is conjugated at 5 – 9 moles of FITC per mole of Ig.

**Fluorescence**

FITC (Green)

Excites at 498 – 509 nm

Emits at 504 – 541 nm

**REAGENT CONTENTS**

This reagent is provided in phosphate-buffered saline, with 0.1% sodium azide (NaN₃) as preservative, and 2.0 mg / mL bovine serum albumin (BSA).

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**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. Do not use antibody beyond the expiration date on the label.

3. Samples and all material coming in contact with them should be handled as if capable of transmitting infection and disposed of with proper precautions.

4. Never pipet by mouth and avoid contact of samples with skin and mucous membranes.

5. Minimize exposure of reagent to 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.

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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.

**EVIDENCE OF DETERIORATION**

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

**REAGENT PREPARATION**

No preparation is necessary. This monoclonal antibody may be used directly from the vial. Bring reagent to 18 – 25°C prior to use.

**SELECTED RESEARCH REFERENCES**


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**PRODUCT AVAILABILITY**

**IOTest CD28-FITC Conjugated Antibody**

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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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**TRADEMARKS**

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(*): 20 µL is the quantity of product sufficient to stain

5 x 10⁶ cells in a standard immunofluorescence assay