

### Analyte Specific Reagent.

Analytical and performance characteristics are not established.

### SPECIFICITY

The CD13 antigen is a type II integral membrane metalloprotease with a molecular weight of 150-170 kDa (1). This glycoprotein has a large C-terminal extracellular region with numerous N- and O-linked glycosylation sites.

The CD13 antigen is expressed by cells of myeloid origin (2).

The SJ1D1 monoclonal antibody (mAb) reacts in peripheral blood samples with monocytes, neutrophils, eosinophils, and basophils.

The SJ1D1 mAb has been clustered as CD13 during the 3rd International Workshop on Human Leucocyte Differentiation Antigens, in Oxford, England, in 1986 (WS Code: 285) (3).

### REAGENT

IOTest CD13-FITC Conjugated Antibody  
PN IM0778U – 2 mL Liquid – 20 µL / test\*.

**Clone** SJ1D1

**Isotype** IgG1, mouse

**Immunogen** KG-1 cell line

**Hybridoma** SP2/0 x Balb/c

**Source** Ascites fluid

**Purification** Ion exchange or affinity chromatography

**Conjugation** FITC (Fluorescein isothiocyanate) is conjugated at 3 – 5 moles of FITC per mole of Ig.

**Fluorescence** FITC (Green)  
Excites at 468 – 509 nm  
Emits at 504 – 541 nm

### REAGENT CONTENTS

This reagent is provided in phosphate-buffered saline, with 0.1% sodium azide (NaN<sub>3</sub>) as preservative, and 2.0 mg / mL bovine serum albumin (BSA).

### 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.

### 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-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

1. Look, T. et al., "Molecular cloning, expression and chromosomal localization of the gene encoding a human myeloid membrane antigen (gp150)", 1986, J. Clin. Invest., 78, 914-921.
2. Mirro, J., Melvin, S., Metzger, D., Look, A., Murphy, S., 1984, Leucocyte Typing I, Bernard, A. et al., Springer Verlag, 442-446.
3. Hogg, N., Horton, M.A., "Myeloid antigens, new and previously defined cluster", 1987, Leucocyte Typing III, White Cell Differentiation Antigens, A.J. McMichael, et al., Eds., Oxford University Press, 576-602.

### PRODUCT AVAILABILITY

IOTest CD13-FITC Conjugated Antibody  
PN IM0778U – 2 mL Liquid – 20 µL / test\*.

For additional information in the USA, call 800-526-7694.

Outside the USA, contact your local Beckman Coulter representative.

[www.beckmancoulter.com](http://www.beckmancoulter.com)

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

5 x 10<sup>5</sup> cells in a standard immunofluorescence assay