IOTest® CD44-FITC

PN IM1219U – 2 mL Liquid – 20 µL / test* – Clone J.173

Analyte Specific Reagent.

Analytical and performance characteristics are not established.

SPECIFICITY

CD44 cluster antigens are transmembrane glycoproteins, members of the hyaladherin family of hyaluronan-binding proteins (1). Multiple CD44 isoforms have been described, the predominant form being CD44S, a glycoprotein of 85 kDa. The expression and adhesive properties of CD44 molecules are described in refs. 2 and 3. CD44 is present on most cells or tissues, but not on platelets, hepatocytes, cardiac muscle, kidney tubular epithelium, testis and skin portions (4).

The J.173 monoclonal antibody has been assigned to the CD44 cluster of differentiation at the 3rd International Workshop on Human Leucocyte Differentiation Antigens in Oxford, England, in 1986 (5). Its reactivity is described in refs. 6, 7 and 8.

REAGENT

IOTest CD44-FITC Conjugated Antibody
PN IM1219U – 2 mL Liquid – 20 µL / test*.

Clone	J.173
Isotype	IgG1, mouse
Immunogen	LAZ 221 ALL
Hybridoma	NS1x Balb/c
Source	Ascites fluid
Purification	Ion exchange or affinity chromatography
Conjugation	FITC (Fluorescein isothiocyanate) is conjugated at 4 – 7 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_3) 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. Culty, M., Miyake, K., Kincade, P.W., Silorski, E., Butcher, E.C., Underhill, C., "The hyaluronate receptor is a member of the CD44 (H-CAM) family of cell surface glycoproteins",1990, J. Cell Biol., 6, 111, 2765-2774.
2. Haynes, B.F., Liao, H-X., Patton, K.L., "The transmembrane hyaluronate receptor (CD44): Multiple functions, multiple forms", 1991, Cancer Cells, 9 (Septem, 3,).
3. Stamenkovic, I., Amiot, M., Pesando, J.M., Seed, B., "A lymphocyte molecule implicated in lymph node homing is a member of the cartilage link protein family", 1989, Cell, 56, 1057-1062.
4. Patel, D.D., Liao, H-X., Haynes, B.F., "CD44 Workshop Panel report", 1997, Leucocyte Typing VI, White Cell Differentiation Antigens. Kishimoto, T., et al, Eds., Garland Publishing, Inc., 373-375.
5. Cobbold, S., Hale, G., Waldmann, H., "Non-lineage, LFA-1 family, and leukocyte common antigens: New and previously defined clusters", 1987, Leucocyte Typing III, White Cell Differentiation Antigens, McMichael A.J., et al., Eds., Oxford University Press, 788-803.
6. Galandrini, R., Albi, N., Tripodi, G., Zarcone, D., Terenzi, A., Moretta, A., Grossi, C.E., Velardi, A., "Antibodies to CD44 trigger effector functions of human T cell clones", 1993, J. Immunol., 10, 150, 4225-4235.
7. Brezinschek, R.I., Lipsky, P.E., Galea, P., Vita, R., Oppenheimer-Marks, N., "Phenotypic characterization of $CD4^+$ T-cells that exhibit a transendothelial migratory capacity", 1995, J. Immunol., 154, 3062-3077.
8. Lagresle, C., Bella, C., Daniel, P.T., Krammer, P.H., Defrance, T., "Regulation of germinal center B cell differentiation", 1995, J. Immunol., 154, 5746-5756.

PRODUCT AVAILABILITY

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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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(*): 20 µL is the quantity of product sufficient to stain 5×10^5 cells in a standard immunofluorescence assay