

### Analyte Specific Reagent.

Analytical and performance characteristics are not established.

#### SPECIFICITY

The CD44 antigens are transmembrane glycoproteins and 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 (2, 3).

CD44 is present on most cells or tissues, but not on platelets, hepatocytes, cardiac muscle, kidney tubular epithelium, testis and skin portions (4).

J.173 antibody does not inhibit the binding of hyaluronate to its receptor (1). It can trigger IL-2-dependent proliferation and cytotoxicity of human T cell clones in vitro (2, 3, 5-7).

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 (8).

#### REAGENT

IOTest CD44-APC-Alexa Fluor 750  
Conjugated Antibody  
PN B30637 - 0.5 mL - Liquid

<b>Clone</b>	J.173
<b>Isotype</b>	IgG1, Mouse
<b>Immunogen</b>	LAZ 221 ALL
<b>Hybridoma</b>	NS1 x balb/c
<b>Source</b>	Ascites fluid or supernatant of in vitro cultured hybridoma cells.
<b>Purification</b>	Affinity chromatography
<b>Conjugation</b>	Allophycocyanin-Alexa Fluor 750 (APC-Alexa Fluor 750)
<b>Molar Ratio</b>	APC-Alexa Fluor 750 / Ig : 0.5 - 1.5
<b>Fluorescence</b>	Excites at 633/638 nm Emits at 775 nm

#### REAGENT CONTENTS

This antibody is provided in phosphate-buffered saline, containing 0.1% sodium azide and 2 mg/mL bovine serum albumin. Concentration: See lot specific Certificate of Analysis at [www.beckmancoulter.com](http://www.beckmancoulter.com).

#### 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 during storage or incubation.
6. Avoid microbial contamination of reagents or incorrect results might occur.
7. Use good laboratory practices when handling this reagent.
8. Any change in the physical appearance of the reagents may indicate deterioration and the reagent should not be used.

#### STORAGE AND HANDLING CONDITIONS AND STABILITY

This reagent is stable up to the expiration date when stored at 2 – 8°C. Do not freeze. No reconstitution is necessary. This monoclonal antibody may be used directly from the vial. Bring reagent to 18 – 25°C prior to use.

#### PRECAUTIONS

Due to the tandem structure of the fluorochrome, APC-Alexa Fluor 750 also emits light at 660 nm. This secondary emission peak varies from lot-to-lot of APC-Alexa Fluor 750. Therefore, for multi-color analysis, the compensation matrix should be carefully checked when changing the lot of a APC-Alexa Fluor 750-conjugate.

#### SELECTED RESEARCH REFERENCES

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6. Brezinschek, R.I., Lipsky, P.E., Galea, P., Vita, R., Oppenheimer-Marks, N., "Phenotypic characterization of CD4<sup>+</sup> T-cells that exhibit a transendothelial migratory capacity", 1995, J. Immunol., 154, 3062-3077.
7. 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.
8. 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.

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