

Analyte Specific Reagent.

Analytical and performance characteristics are not established.

SPECIFICITY

The CD43 molecule (also known as leukosialin, sialophorin, leucocyte sialophorin, leucocyte sialo-glycoprotein, gpL115) is a 95-135 kDa cell surface mucin-type glycoprotein. The molecule is heavily O-glycosylated and sialylated. This explains the molecular weight heterogeneity (1, 2).

The CD43 antigen is expressed on platelets and on all white blood cells except non-activated B lymphocytes. It is also expressed on bone marrow precursor cells (1).

The DFT1 monoclonal antibody reacts with an extracellular epitope of the CD43 antigen (3). It has been assigned to the CD43 cluster of differentiation at the 4th International Workshop on Human Leucocyte Differentiation Antigen in Vienna, Austria, in 1989 (2).

REAGENT

IOTest CD43-FITC Conjugated Antibody
PN IM3264U – 2 mL Liquid – 20 µL / test*.

Clone DFT1

Isotype IgG1, mouse

Immunogen Myeloblastic cell line KG1

Hybridoma Myeloma x Balb/c

Source Ascites fluid

Purification Ion exchange or affinity chromatography

Conjugation FITC (Fluorescein isothiocyanate) is conjugated at 15 – 25 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 (NaN₃) 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. Arber, D.A., Weiss, L.M., "CD43: A review", 1993, Appl. Immunohistochem., 2, 1, 88-96.
2. Stoll, M., Dalchau, R., Schmidt, R.E., "Cluster report: CD43", 1989, Leucocyte Typing IV, White Cell Differentiation Antigens, W. Knapp, et al., Eds., Oxford University Press, 604-619.
3. Stross, W.P., Flavell, D.J., Flavell, S.U., Simmons, D., Gatter, K.C., Warnke, R.A., Mason, D.Y., "Epitope specificity and staining properties of CD43 (sialophorin) antibodies", 1989, Leucocyte Typing IV, White Cell Differentiation Antigens. W. Knapp, et al., Eds., Oxford University Press, 615-617.

PRODUCT AVAILABILITY

IOTest CD43-FITC Conjugated Antibody
PN IM3264U – 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

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(*): 20 µL is the quantity of product sufficient to stain 5 x 10⁵ cells in a standard immunofluorescence assay

