IOTest® CD42b-FITC

PN IM0648U – 2 mL Liquid – 20 µL / test* – Clone SZ2

Analyte Specific Reagent.

Analytical and performance characteristics are not established.

SPECIFICITY

CD42b (GPIbα) is a transmembrane glycoprotein of 170 kDa, linked to CD42c (GPIbβ) via one disulfide bond. This heterodimer forms a non-covalent complex with CD42a (GPIX) and CD42d (GPV) (1). CD42b expression is restricted to platelets and megakaryocytes (2).

The SZ2 monoclonal antibody reacts with CD42b (3, 4). It has been assigned to the CD42b cluster of differentiation at the 5th International Workshop on Human Leucocyte Differentiation Antigens in Boston, USA, in 1993 (WS Code: P082) (1).

REAGENT

IOTest CD42b-FITC Conjugated Antibody
PN IM0648U – 2 mL Liquid – 20 µL / test*.

Clone	SZ2
Isotype	IgG1, mouse
Immunogen	Human washed platelets
Hybridoma	X63-Ag8.653 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 (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. Michelson, A.D., "CD42 cluster workshop report", 1995, Leucocyte Typing V, White Cell Differentiation Antigens. Schlossman, S.F., et al., Eds., Oxford University Press, 1309-1310.
2. Blanchard, D., Borche, L., Petit-Frioux, Y., Müller, J.Y., "Cell expression and biochemical characterization of platelet antigens recognized by workshop platetlet panel mAb", 1995, Leucocyte Typing V, White Cell Differentiation Antigens., Schlossman, S.F., et al., Eds., Oxford University Press, 1225-1229.
3. Ruan, C., Du, X., Xi, X., Castaldi, P.A., Berndt, M.C., "A murine antiglycoprotein Ib complex monoclonal antibody, SZ2, inhibits platelets aggregation induced by both ristocetin and collagen", 1987, Blood, 2, 69, 570-577.
4. Du, X., Beuler, L., Ruan, C., Castaldi, P.A., Berndt, M.C., "Glycoprotein Ib and glycoprotein IX are fully complexed in the intact platelet membrane", 1987, Blood, 5, 69, 1524-1527.

PRODUCT AVAILABILITY

IOTest CD42b-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

TRADEMARKS

Manufactured by:
Immunotech, a Beckman Coulter Company
130, avenue de Lattre de Tassigny, B.P. 177
13276 Marseille Cedex 9, France

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