IOTest® CD51-FITC

PN IM1855 – 100 tests – Liquid – 20 µL / test – Clone AMF7

For Research Use Only. Not for use in diagnostic procedures.

SPECIFICITY

The CD51 antigen is the 150 kDa integrin αV-chain, consisting of 2 subunits of 125 kDa and 25 kDa respectively, linked together through a disulfide link. The αV-chain can be non-covalently associated with the integrin β3 chain also known as GPIIIa or CD61 molecule. This complex is known as the receptor for vitronectin, fibrinogen, thrombospondin and the von Willebrand's factor. CD51 is expressed by platelets, megakaryocytes, some B lymphocytes and by endothelial cells.
In combination with β3, CD51 is found on endothelial cells, some B lymphocytes, monocytes, macrophages, platelets, osteoclasts, and mast cells.

REAGENT

IOTest CD51-FITC Conjugated Antibody
PN IM1855 – 100 tests – Liquid - 20 µL / test.

Clone	AMF7
Isotype	IgG1, Mouse
Immunogen	Melanoma cell line (BK-Mole syndrome)
Hybridoma	SP2/0.Ag1.4 x Balb/c
Source	Ascites fluid
Purification	Ion exchange or affinity chromatography
Conjugation	Fluorescein isothiocyanate (FITC)
Molar Ratio	FITC / Ig : 3 – 7
Fluorescence	Excites at 468 - 509 nm Emits at 504 - 541 nm

REAGENT CONTENTS

This antibody is provided in phosphate-buffered saline pH 7.4, containing 0.1% sodium azide and 2 mg/mL bovine serum albumin.

APPLICATION

Flow cytometry.

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 handled as if they might transmit infection 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.

STORAGE CONDITIONS AND STABILITY

This reagent is stable up to the expiration date when stored at 2 – 8°C in the dark. Do not freeze.

REAGENT PREPARATION

No reconstitution is necessary. This monoclonal antibody may be used directly from the vial. Bring reagent to 18 – 25°C prior to use.

PROCEDURE

This reagent is designed for flow cytometry.
A wash is required to yield optimal results
Assay volume: 20 µL per 5 x 10^5 cells in one test, or per 100 µL whole blood.

SELECTED RESEARCH REFERENCES

1. Wong, D.A., Springer, T.A., "Adhesion structure subpanels 7 and 8, β3, β4, β7 integrins and novel functional antigens: CD51, CD61, CD103, and CD104", 1995, Leucocyte Typing V, White Cell Differentiation Antigens. Schlossman, S.F., et al., Eds., Oxford University Press, 1655-1659.

TRADEMARKS AND PATENTS

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