IOTest CD41-APC

PN B16894 – 0.5 mL – Liquid – 10 µL/test – Clone P2

Analyte Specific Reagent.
Analytical and performance characteristics are not established.

SPECIFICITY

The CD41 antigen is the integrin αIIb chain, also called platelet gpIIb. The molecular weight of the recognized antigen is 135 kDa (1). CD41 is non-covalently associated with the integrin β3 chain, also called gpIIIa or CD61 (2).
The P2 monoclonal antibody (mAb) reacts with gpIIb in the intact complex with gpIIIa, but not with gpIIb or gpIIIa separately (1, 2). The P2 mAb has been assigned to the CD41 cluster of differentiation during the 5th International Workshop on Human Leucocyte Differentiation Antigens in Boston, USA, in 1993 (WS Code: P086) (3).

REAGENT

IOTest CD41-APC
Conjugated antibody
PN B16894 - 0.5 mL - Liquid - 10 µL/test

Clone	P2
Isotype	IgG1, Mouse
Immunogen	Human platelets
Hybridoma	SP2/0 x balb/c
Source	Ascites fluid or supernatant of in vitro cultured hybridoma cells.
Purification	Affinity chromatography
Conjugation	Allophycocyanin (APC)
Molar Ratio	APC / Ig : 0.5 - 1.5
Fluorescence	Excites at 633/638 nm Emits at 660 nm

REAGENT CONTENTS

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

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.

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.

SELECTED RESEARCH REFERENCES

1. 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.
2. Phillips,D.R., Charo, I.F., Parise, L.V., Fitzgerald, L.A., "The platelet membrane gpIIb/IIIa complex", 1988, Blood, 4, 71, 831-843.
3. Silverstein, R.L.," Platelet antigens: Section report", 1995, Leucocyte Typing V, White Cell Differentiation Antigens. Schlossman, S.F., et al., Eds., Oxford University Press, 1195-1204.

TRADEMARKS

MANUFACTURED BY :

IMMUNOTECH SAS
a Beckman Coulter Company
130, avenue de Lattre de Tassigny
B.P. 177 - 13276 Marseille Cedex 9
France

For additional information in the USA, call 800-526-7694.
Outside the USA, contact your local Beckman Coulter representative.

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