

IOTest CD36-APC-Alexa Fluor 700

PN B46022 – 0.5 mL – Liquid – Clone FA6.152

Analyte Specific Reagent.

Analytical and performance characteristics are not established

IOTest

CD36-APC-Alexa
Fluor 700

PN B46022

Conjugated Antibody
Liquid - 0.5 mL

Specifications	
Clone	FA6.152
Hybridoma	X63 x balb/c
Immunogen	Fetal erythrocytes
Isotype	IgG1
Species	Mouse
Source	Ascites fluid or supernatant of in vitro cultured hybridoma cells
Purification	Affinity chromatography
Fluorochrom	Allophycocyanin-Alexa Fluor 700
Molar ratio	APC-Alexa Fluor 700 / Ig: 0.5 - 1.5
λ excitation	633/638 nm
Emission Peak	720 nm
Buffer	PBS pH 7.2 plus 2 mg / mL BSA and 0.1% NaN ₃

SPECIFICITY

The CD36 antigen is a generic term for a family of glycoproteins with molecular weights ranging from 78 to 88 kDa (1). CD36 expression occurs in different types of cells, including mammary epithelial cells, monocytes, macrophages, platelets, megakaryocytes and early erythroid cells.

The FA6-152 monoclonal antibody (mAb), raised against fetal erythrocytes (2), has been shown to recognize the CD36 family of antigens in platelets and certain hematopoietic cells (1). It does not react with lymphocytes or granulocytes. It reacts with both fetal and adult monocytes, megakaryocytes, platelets, and with reticulocytes.

The FA6.152 mAb has been assigned to the CD36 cluster of differentiation during the 5th International Workshop on Human Leucocyte Differentiation Antigens in Boston, USA, in 1993 (1).

REAGENT CONTENTS

Concentration: See lot specific Certificate of Analysis at www.beckmancoulter.com.

PRECAUTIONS

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.

LIMITATIONS OF THE TECHNIQUE

Due to the tandem structure of the fluorochrome, APC-Alexa Fluor 700 also emits light at 660 nm. This secondary emission peak varies from lot-to-lot of APC-Alexa Fluor 700. Therefore, for multi-color analysis, the compensation matrix should be carefully checked when changing the lot of a APC-Alexa Fluor 700-conjugate.

Weak non-specific binding on a lymphocyte subpopulation may occur on some donors with APC-Alexa Fluor 700 conjugates.

SELECTED RESEARCH REFERENCES

1. Silverstein, R.L., La Salla, J., Pearce, S.F., "CD36 cluster workshop report", 1995, Leucocyte Typing V, White Cell Differentiation Antigens. Schlossman, S.F., et al., Eds., Oxford University Press, 1269-1271.

2. Edelman, P., Vinci, G., Villeval, J.L., Vainchenker, W., Henri, A., Miglierina, R., Rouger, P., Reviron, J., Breton Gorius, J., Sureau, C., Edelman, L., "A monoclonal antibody against an erythrocyte ontogenic antigen identifies fetal and adult erythroid progenitors", 1986, Blood, 1, 67, 56-63.

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