

Analyte Specific Reagent.

Analytical and performance characteristics are not established.

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

IOTest CD36-FITC Conjugated Antibody
PN IM0766U – 2 mL Liquid – 20 µL / test*.

Clone FA6.152

Isotype IgG1, mouse

Immunogen 20 week-old human fetal red blood cells

Hybridoma Source X63 Ag8.653 x Balb/c Ascites fluid

Purification Ion exchange or affinity chromatography

Conjugation FITC (Fluorescein isothiocyanate) is conjugated at 5 – 7 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. 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.

PRODUCT AVAILABILITY

IOTest CD36-FITC Conjugated Antibody
PN IM0766U – 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