

Monoclonal Antibody IOTest[®] CD89-PE

PN IM1614- 100 tests – Liquid - 20 µL/test - Clone A3

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

SPECIFICITY

CD89 antigen (F α R) is a 50-75kDa single chain transmembrane glycoprotein.

F α R can bind both monomeric and polymeric forms of IgA1 and IgA2 antibodies (1).

The identified F α R gene encodes six potential N-glycosylation sites in the predicted extracellular region (2).

The selective expression of F α R by myeloid lineage cells has been confirmed by analysis of F α R mRNA expression (2).

A3 recognizes nonpolymorphic determinant located outside of the IgA-binding site of the F α R molecules (3).

The antibody stains more than 99% of peripheral blood mononuclear cells (3). The majority of this subpopulation of blood mononuclear cells is CD15+, whereas CD3+ T cells, CD19+ B cells and CD57+ NK are non reactive (3).

In the bone marrow the antibody reacts with 50 to 75% of the myelomonocytic cells and granulocytes (3).

The antibody does not block IgA binding.

REAGENT

IOTest CD89-PE Monoclonal Antibody
PN IM1614 - 100 tests - Liquid - 20µL/test

Clone	A3
Isotype	IgG1 kappa, Mouse
Immunogen	F α receptors from U937 cell line.
Hybridoma	Myeloma Ag8.653 x Balb/c lymph node cells.
Source	Ascites fluid
Purification	Protein A affinity or affinity chromatography
Conjugation	R Phycoerythrin (PE)
Molar Ratio	PE / Ig : 0.5 - 1.5
Fluorescence	Excites at 486-509 nm Emits at 568-590 nm

REAGENT CONTENTS

This antibody is provided in phosphate-buffered saline, 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 capable of transmitting 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. 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. Assay volume: 20 µL per 5 x 10⁵ cells in one test, or per 100 µL whole blood.

SELECTED RESEARCH REFERENCES

1. Monteiro, R.C., Kubagawa, H., Cooper, M.D., "Cellular distribution, regulation, and biochemical nature of an F α receptor in humans", 1990, J. Exp. Med., 171; 597.
2. Maliszewski, C.R., March, C.J., Schoenberg, M.A., Gimpel, S., Shen, L., "Expression cloning of a human Fc receptor for IgA", 1990, J. Exp. Med. 172, 1665-1672.
3. Monteiro, R.C., Cooper, M.D., Kubagawa, H. "Molecular heterogeneity of F α receptors detected by receptor-specific monoclonal antibodies", 1992, J. Immunol., 148, 1764-1770..
4. Monteiro, R.C., Hostoffer, R.W., Cooper, M.D., Bonner, J.R., Gartland, G.L., Kubagawa, H., "Definition of immunoglobulin A receptors on eosinophils and their enhanced expression in allergic individuals" 1993, J. Clin. Invest., 92, 1681-1685..
5. Grossetête, B., Viard, J.P., Lehuen, A. Bach, J.F., Monteiro, R., "Impaired Fc α receptor expression is linked to increased Immunoglobulin A levels and disease progression in HIV-1-infected patients", 1995, AIDS, 9, (3), 229-334..
6. This antibody has been assigned to the CD89 cluster of differentiation at the fifth International Workshop on Human Leukocyte Differentiation Antigens in Boston (1993).

TRADEMARKS

Beckman Coulter, the Beckman Coulter logo, COULTER, IOTest, are registered trademarks of Beckman Coulter, Inc.

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.

www.beckmancoulter.com

Printed in France.
Made in France.

©2008 Beckman Coulter, Inc.
All Rights Reserved

