

Analyte Specific Reagent.

Analytical and performance characteristics are not established.

SPECIFICITY

The CD23 antigen is a type II transmembrane glycoprotein with a molecular weight of 45 kDa. The CD23 molecule, also named FcεRII is the low affinity receptor for IgE. The CD23 antigen is primarily expressed on B lymphocytes and monocytes. It is also present on a large variety of other cells such as T lymphocytes, eosinophils, platelets, Langerhans cells, a subset of thymic epithelial cells and neutrophils. On B lymphocytes, CD23 expression is upregulated upon activation and ultimately lost upon plasmocyte differentiation. A soluble form of CD23 (sCD23) exists and may be involved (like CD23) in the regulation of IgE synthesis and inflammatory phenomenon.

The 9P25 monoclonal antibody was assigned to the CD23 cluster of differentiation at the 6th International Workshop on Human Leucocyte Differentiation Antigens in Kobe, Japan (1996) (WS Code: CD23.1) (1, 2).

REAGENT

IOTest CD23-ECD Conjugated Antibody
PN IM3609U – 1 mL Liquid – 10 µL / test*.

Clone 9P25
Hybridoma NS1 x Balb/c spleen cells
Immunogen EBV transformed lymphoblastoid cell line

Source Ascites fluid

Purification Ion exchange or affinity chromatography

Conjugation Energy Coupled Dye (ECD): The Ig is conjugated to a tandem dye constituted of R-phycoerythrin covalently linked to Texas Red at 0.8-1 mole of ECD per mole of Ig.

Fluorescence ECD (Red)
Excites at 486–580 nm
Emits at 610–635 nm

Buffer 2 mg/mL bovine serum albumin in phosphate-

buffered saline containing 0.1% sodium azide.

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. 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. Minimize exposure to light.

EVIDENCE OF DETERIORATION

Any change in the physical appearance of this ECD-labeled reagent (clear, colorless to pinkish liquid) or any major variation in values obtained for control samples may indicate deterioration and the reagent should not be used.

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.

SELECTED RESEARCH REFERENCES

1. Bonnefoy, J-Y., Gauchat, J-F., Life, P., Graber, P., Mazzei, G., Aubry, J-P., "Pairs of surface molecules involved in human IgE regulation: CD23-CD21 and CD40-CD40L", 1996, Eur. Respir. J., 9, 63s-66s.
2. Goff, L.K., Armitage, R.J., Beverley, P.C.L., "Characterization of two CD23 monoclonal antibodies with reactivity distinct from other antibodies within this cluster of differentiation", 1988, Immunology, 65, 213-220.

PRODUCT AVAILABILITY

IOTest CD23-ECD Conjugated Antibodies
PN IM3609U – 1 mL Liquid – 10 µL / test*.

ECD is licensed under patent 4,520,104.

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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(*): 10 µL is the quantity of product sufficient to stain 5 x 10⁵ cells in a standard immunofluorescence assay

