

Analyte Specific Reagent.

Analytical and performance characteristics are not established.

SPECIFICITY

The CD13 antigen is a transmembrane glycoprotein with a large extracellular region and a small intracellular NH₂-terminal tail. It has a molecular weight of 150 kDa and is expressed on the cell surface as a non-covalently linked homodimer. It is found on most cells of myeloid origin including neutrophils, eosinophils, basophils and monocytes from normal peripheral blood. It is absent from B and T lymphocytes as well as from red blood cells and platelets. This molecule is found on the surface of committed progenitor cells defined as the Granulocyte-Monocyte Colony Forming Units (CFU-GM) in normal bone marrow. There are up to five subpopulations of CD13 molecules possessing different levels of glycosylation, which may explain the different binding patterns of various CD13 antibodies.

The Immu103.44 monoclonal antibody has been assigned to the CD13 cluster of differentiation during the fifth International Workshop on Human Leucocyte Differentiation Antigens held in Boston, USA (1993) (1).

REAGENT

IOtest CD13-ECD Conjugated Antibody
PN A33097 – Liquid 1 mL
– 10 µL / test*.

Clone Immu103.44
Isotype IgG1, mouse
Immunogen Mixture of cell lines KG-1a and TF1
Hybridoma X63-Ag8.653 x Balb/c
Source Ascites fluid
Purification Ion exchange or affinity chromatography
Conjugation 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.

Excitation wavelength: 488 nm
Maximum emission wavelength: 613 nm
Main emission color: Red

REAGENT CONTENTS

This reagent is provided in phosphate-buffered saline containing 0.1% sodium azide (NaN₃) as preservative, and 2 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. 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 reagent beyond the expiration date on the vial label.
5. Minimize exposure of reagent to light during storage or incubation.
6. Avoid microbial contamination of reagent or erroneous results may occur.
7. Use good laboratory practices when handling this reagent.

STORAGE CONDITIONS AND STABILITY

This reagent is stable up to the expiration date printed on the vial label

when stored at 2 – 8°C in the dark. Do not freeze. Minimize exposure to light.

REAGENT PREPARATION

No preparation is necessary. This reagent is used directly from the vial. Bring reagent to 18 – 25°C prior to use.

SELECTED RESEARCH REFERENCES

1. Ashmun, R.A., Holmes, K.V., Shapiro, L.H., Favalaro, E.J., Razak, K., De Crom, R.P.G., Howard, C.J., Look, A.T., "CD13 cluster workshop report", 1995, Leucocyte Typing V; Schlossman, S.F., et al. Eds, Oxford University Press, p 771-775.

PRODUCT AVAILABILITY

IOtest CD13-ECD Conjugated Antibody
PN A33097 – Liquid 1 mL
– 10 µL / test*.

For additional information in the USA, call 800-526-7694.

Outside the USA, contact your local Beckman Coulter representative.

www.beckmancoulter.com

TRADEMARKS

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