

Analyte Specific Reagent.

Analytical and performance characteristics are not established.

SPECIFICITY

CD30 antigen is a member of the tumor necrosis factor receptor (TNFR) / nerve growth factor receptor (NGFR) superfamily (1, 2). The molecular weight of the recognized antigen is 105 kDa and it binds to CD153 (CD30 ligand).

The CD30 antigen is found on activated T and B lymphocytes and on Reed Sternberg cells. In lymphoid tissues, CD30 (also known as Ki-1 antigen) is expressed on a few extrafollicular activated T and B blasts and B blasts located at the rim of germinal center (1, 3).

CD30 expression is induced *in vitro* on lectin-stimulated T-cell, B-cell blast and on mixed lymphocyte culture (MCL) suggesting an activated lymphoid cell expression feature (2, 3).

The HRS4 monoclonal antibody has been assigned to the CD30 cluster of differentiation during the fifth International Workshop on Human Leucocyte Differentiation Antigens held in Boston, USA in 1993 (3).

REAGENT

IOTest CD30-PE Conjugated Antibody
PN IM2033U – 2 mL Liquid – 20 µL / test*.

Clone HRS4

Isotype IgG1, mouse

Immunogen Hodgkin's derived cell line L540

Hybridoma P3-X63-Ag.8.653 X Balb/c

Source Ascites fluid

Purification Ion exchange or affinity chromatography

Conjugation R-phycoerythrin (PE) is conjugated at 0.5 – 1.5 moles of PE per mole of Ig.

Fluorescence PE (orange-red)
Excites at 486 – 580 nm
Emits at 568 – 590 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 PE-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 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. Morimoto, C., "Activation antigens: Section report", 1995, Leucocyte Typing V, White Cell Differentiation Antigens. Schlossman, S.F., et al., Eds., Oxford University Press, 1097-1104.
2. Ellis, T.M., Simms, P.E., Slivnick, D.J., Jäck, H.M., Fisher, R.I., "CD30 is a signal-transducing molecule that defines a subset of human activated CD45RO⁺ T cells", 1993, J. Immunol., 5, 151, 2380-2389.
3. Dürkop, H., Latza, U., Stein, H., "Overview of CD30", 1995, Leucocyte Typing V, White Cell Differentiation Antigens. Schlossman, S.F., et al., Eds., Oxford University Press, 1115-1116.

PRODUCT AVAILABILITY

IOTest CD30-PE Conjugated Antibody
PN IM2033U – 2 mL Liquid – 20 µL / test*.

PE is licensed under patent 4,520,110.

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