BECKMAN COULTER
MADE IN France

IOTest
Conjugated Antibody
CD30-PE

	Specifications
Specificity	CD30
Clone	HRS4
Hybridoma	X63 x balb/c
Immunogen	Hodgkin's derived cell line L540
Isotype	IgG1
Species	Mouse
Purification	Affinity Chromatography
Fluorochrome	R Phycoerythrin (PE)
Molar ratio	PE / Ig: 0.5-1.5
λ excitation	488 nm
Emission Peak	575 nm
Buffer	PBS pH 7.2 plus 2 mg / mL BSA and 0.1% NaN_3

REF IM2033U Liquid - 2 mL

Analyte Specific Reagent.
Analytical and performance characteristics are not established

REAGENTS
Concentration: See lot specific Certificate of Analysis at www.beckmancoulter.com.

WARNING AND PRECAUTIONS
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 considered potentially infectious 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.
8. Any change in the physical appearance of the reagents may indicate deterioration and the reagent should not be used.

GHS HAZARD CLASSIFICATION
Not classified as hazardous

SDS	Safety Data Sheet is available at beckman.com/techdocs

STORAGE AND HANDLING CONDITIONS AND STABILITY
This reagent is stable up to the expiration date when stored at 2 – 8°C. Do not freeze.

No reconstitution is necessary. This monoclonal antibody may be used directly from the vial. Bring reagent to 18 – 25°C prior to use.

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Sodium azide preservative may form explosive compounds in metal drain lines. See NIOSH Bulletin: Explosive Azide Hazard (8/16/76).

To avoid the possible build-up of azide compounds, flush wastepipes with water after the disposal of undiluted reagent. Sodium azide disposal must be in accordance with appropriate local regulations.

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).

TRADEMARKS

ADDITIONAL INFORMATION

For additional information, or if damaged product is received, call Beckman Coulter Customer Service at 800-526-7694 (USA or Canada) or contact your local Beckman Coulter Representative.

Symbols Key

Glossary of Symbols is available at beckman.com/techdocs (document number B60062)

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.

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