## CD30 (Ber-H83)

## Monoclonal Antibodies Dete Huma Antig

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Antibodies Detecting Human Antigens	FormCatalog numberFITC341644PE341655Product availability varies by region. Contact BD Biosciences Customer Support or your local sales representative for information.						
RESEARCH APPLICATIONS	<ul> <li>Research applications include studies of:</li> <li>Hodgkin's disease and Reed-Sternberg cells<sup>1,2</sup></li> <li>Lymphoproliferative disorders<sup>2</sup></li> <li>Embryonal carcinomas<sup>2</sup></li> <li>CD30<sup>+</sup> non-Hodgkin's lymphoma (NHL), including anaplastic large-cell lymphoma (ALCL)<sup>2</sup></li> </ul>						
	• B-cell differentiation $(B-NHL)^2$						
	• Activation and apoptosis <sup>2,3</sup>						
DESCRIPTION							
Specificity	The CD30 antibody recognizes a 120-kilodalton (kDa) type I transmembrane glycoprotein. <sup>3</sup> The CD30 antigen belongs to the tumor necrosis factor receptor/nerve growth factor receptor (TNFR/NGFR) superfamily. <sup>3</sup>						
Antigen distribution	The CD30 antigen is a receptor and an activation marker. It is expressed by a small subset of extrafollicular activated T and B cells, B cells at the rim of germinal centers, lung macrophages, activated natural killer (NK) cells, endothelial cells, and decidual cells. CD30 antigen is present on primary and cultured Hodgkin's and Reed-Sternberg cells and might aid in the differential diagnosis of Hodgkin's disease. <sup>1,2</sup> It is also found on major categories of NHLs, particularly ALCL, <sup>3</sup> adult T-cell leukemia, and embryonic carcinomas. <sup>1,2</sup> CD30 interaction with CD30 ligand (CD30L) can elicit multidirectional signals leading to either activation or apoptosis. <sup>2</sup>						
Clone	The CD30 antibody, clone Ber-H83, <sup>4,5</sup> is derived from the hybridization of NS-1 mouse myeloma cells with spleen cells from BALB/c mice immunized with Co cells.						
Composition	The CD30 antibody is composed of mouse $IgG_1$ heavy chains and kappa light chains.						
Product configuration	The following are supplied in phosphate buffered saline (PBS) containing a stabilizer and a preservative.						
	Volume Amount Total						

Form	Number of tests	Volume per test (µL) <sup>a</sup>	Amount provided (µg)	Total volume (mL)	Concentration (µg/mL)	Stabilizer	Preservative
FITC	50	20	3	1.0	3	Gelatin	0.1% Sodium azide
PE	50	20	3	1.0	3	Gelatin	0.1% Sodium azide

a. Volume required to stain 10<sup>6</sup> cells.

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

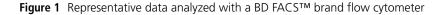
Becton, Dickinson and Company **BD Biosciences** 2350 Qume Drive San Jose, CA 95131 USA

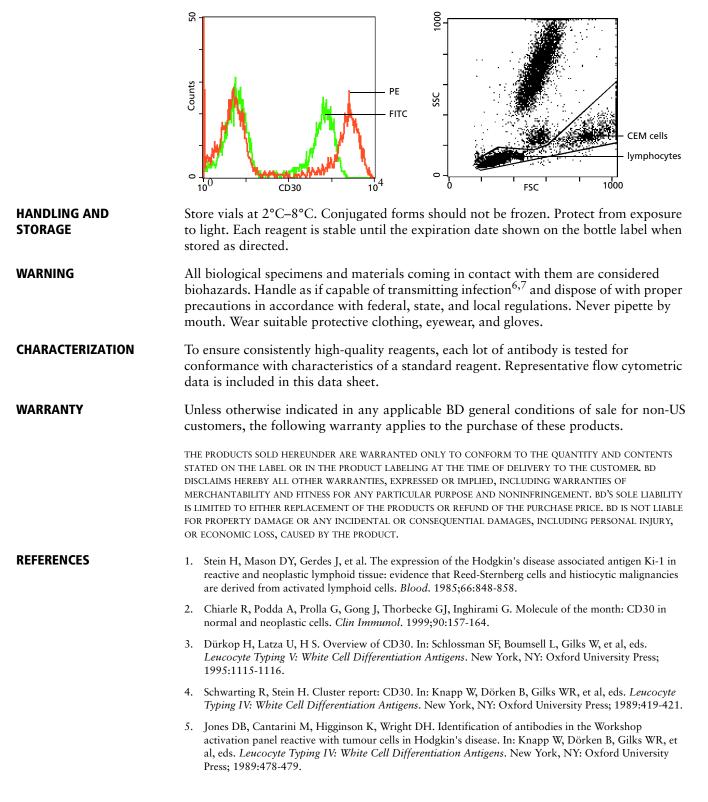


Visit our website (bdbiosciences.com) or contact your local BD representative for the lyse/wash method for direct immunofluorescence.

## **REPRESENTATIVE DATA**

Performed on whole blood mixed with CEM cells and gated on the lymphocyte/CEM fraction. Laser excitation is at 488 nm.





- 6. Protection of Laboratory Workers from Occupationally Acquired Infections; Approved Guideline Third Edition. Wayne, PA: Clinical and Laboratory Standards Institute; 2005. CLSI document M29-A3.
- 7. Centers for Disease Control. Perspectives in disease prevention and health promotion update: universal precautions for prevention of transmission of human immunodeficiency virus, hepatitis B virus, and other bloodborne pathogens in health-care settings. *MMWR*. 1988;37:377-388.

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