

TECHNICAL DATA SHEET

CyFlow™ CD30 FITC Anti-Hu; Clone Ber-H8

REF CX511141

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

Specifications

Antigen	CD30
Alternative Names	D1S166E, Ki-1, TNFRSF8
Clone	Ber-H8
Clonality	monoclonal
Format	FITC
Host / Isotype	Mouse / IgG1
Species Reactivity	Human
Negative Species Reactivity	—
Quantity	100 tests
Immunogen	< no data >

Specificity

The mouse monoclonal antibody Ber-H8 recognizes extracellular part of CD30 antigen, a 105 kDa single chain glycoprotein expressed on Hodgkin's and Reed-Sternberg cells; it is also found in Burkitt's lymphomas, virus-infected T and B lymphocytes, and on normal B and T lymphocytes after activation (T

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lymphocytes that produce Th2-type cytokines and on CD4+/CD8+ T lymphocytes that co-express CD45RO and the IL4 receptor).

Application

The reagent is designed for Flow Cytometry analysis of human blood cells. Recommended usage is 4 µl reagent / 100 µl of whole blood or 10⁶ cells in a suspension. The content of a vial (0.4 ml) is sufficient for 100 tests.

Other usages may be determined from the scientific literature.

Storage Buffer

The reagent is provided in stabilizing phosphate buffered saline (PBS) solution, pH ≈7.4, containing 0.1% (w/v) sodium azide.

Storage and Stability

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
Stability	Do not use after expiration date stamped on vial label.

Background Information

CD30 is a type I transmembrane glycoprotein of the TNF receptor superfamily. CD30 was originally identified as a cell surface antigen of Hodgkins and Reed-Sternberg cells using monoclonal antibody Ki-1. The ligand for CD30 is CD30L (CD153). The binding of CD30 to CD30L mediates pleiotropic effects including cell proliferation, activation, differentiation, and apoptotic cell death. CD30 has a critical role in the pathophysiology of Hodgkin's disease and other CD30+ lymphomas. CD30 acts as a costimulatory molecule in thymic negative selection. In addition to its expression on Hodgkin's and Reed-Sternberg cells, CD30 is also found in some non-Hodgkin's lymphomas (including Burkitt's lymphomas), virus-infected T and B cells, and on normal T and B cells after activation. In T cells, CD30 expression is present on a subset of T cells that produce Th2-type cytokines and on CD4+/CD8+ thymocytes that co-express CD45RO and the IL4 receptor. Soluble form of CD30 (sCD30) serves as a marker reflecting Th2 immune response.

References

- Falini B, Pileri S, Pizzolo G, Dürkop H, Flenghi L, Stirpe F, Martelli MF, Stein H: CD30 (Ki-1) molecule: a new cytokine receptor of the tumor necrosis factor receptor superfamily as a tool for diagnosis and immunotherapy. Blood. 1995 Jan 1; 85(1):41640. < PMID: 7803786 >

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- Franke AC, Jung D, Ellis TM: Characterization of the CD30L binding domain on the human CD30 molecule using anti-CD30 antibodies. *Hybridoma*. 2000 Feb; 19(1):43-8. < PMID: 10768840 >
- Matsumoto K, Terakawa M, Miura K, Fukuda S, Nakajima T, Saito H: Extremely rapid and intense induction of apoptosis in human eosinophils by anti-CD30 antibody treatment in vitro. *J Immunol*. 2004 Feb 15; 172(4):2186-93. < PMID: 14764685 >
- Berro AI, Perry GA, Agrawal DK: Increased expression and activation of CD30 induce apoptosis in human blood eosinophils. *J Immunol*. 2004 Aug 1; 173(3):2174-83. < PMID: 15265955 >
- Aalberse JA, Kapitein B, de Rooij S, Klein MR, de Jager W, van der Zee R, Hoekstra MO, van Wijk F, Prakken BJ: Cord blood CD4+ T cells respond to self heat shock protein 60 (HSP60). *PLoS One*. 2011; 6(9):e24119. < PMID: 21931651 >

The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

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