

1F-153-T025

Monoclonal Antibody to CD30 Fluorescein (FITC) conjugated (25 tests)

Clone:	Ber-H8
Isotype:	Mouse IgG1
Specificity:	<p>The mouse monoclonal antibody Ber-H8 recognizes extracellular part of CD30 (Ki-1 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 lymphocytes that produce Th2-type cytokines and on CD4+/CD8+ T lymphocytes that co-express CD45RO and the IL4 receptor).</p> <p>HLDA III; WS Code A171 HLDA IV; WS Code A105 HLDA V; WS Code A042</p>
Regulatory Status:	RUO
Species Reactivity:	Human
Preparation:	The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC and adjusted for direct use. No reconstitution is necessary.
Storage Buffer:	The reagent is provided in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide.
Storage / Stability:	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.
Usage:	<p>The reagent is designed for Flow Cytometry analysis of human blood cells using 4 µl reagent / 100 µl of whole blood or 10⁶ cells in a suspension.</p> <p>The content of a vial (0.1 ml) is sufficient for 25 tests.</p>
Expiration:	See vial label
Lot Number:	See vial label
Background:	<p>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.</p>

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Antibodies

- References:**
- *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.
 - *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.
 - *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.
 - *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):1-14.
 - *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.

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