

Datasheet for ABIN2749181
anti-TNFRSF8 antibody (PE)[Go to Product page](#)

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Overview

Quantity:	100 tests
Target:	TNFRSF8
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This TNFRSF8 antibody is conjugated to PE
Application:	Flow Cytometry (FACS)

Product Details

Clone:	Ber-H8
Isotype:	IgG1 kappa
Specificity:	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).
Cross-Reactivity (Details):	Human
Purification:	Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

Target:	TNFRSF8
Alternative Name:	CD30 (TNFRSF8 Products)
Background:	<p>TNF receptor superfamily member 8,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.,Ki-1, TNFRSF8, CD30L receptor, D1S166E</p>
Gene ID:	943
UniProt:	P28908

Application Details

Application Notes:	Flow cytometry: The reagent is designed for analysis of human blood cells using 10 µL reagent / 100 µL of whole blood or 10 ⁶ cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.
Comment:	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
Restrictions:	For Research Use only

Handling

Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

Storage: 4 °C

Storage Comment: Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Publications

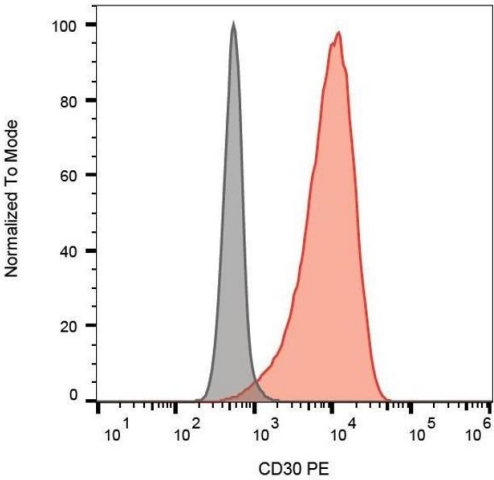
Product cited in: Aalberse, Kapitein, de Roock, Klein, de Jager, van der Zee, Hoekstra, van Wijk, Prakken: "Cord blood CD4+ T cells respond to self heat shock protein 60 (HSP60)." in: **PLoS ONE**, Vol. 6, Issue 9, pp. e24119, (2011) ([PubMed](#)).

Berro, Perry, Agrawal: "Increased expression and activation of CD30 induce apoptosis in human blood eosinophils." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 173, Issue 3, pp. 2174-83, (2004) ([PubMed](#)).

Matsumoto, Terakawa, Miura, Fukuda, Nakajima, Saito: "Extremely rapid and intense induction of apoptosis in human eosinophils by anti-CD30 antibody treatment in vitro." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 172, Issue 4, pp. 2186-93, (2004) ([PubMed](#)).

Franke, Jung, Ellis: "Characterization of the CD30L binding domain on the human CD30 molecule using anti-CD30 antibodies." in: **Hybridoma**, Vol. 19, Issue 1, pp. 43-8, (2000) ([PubMed](#)).

Falini, Pileri, Pizzolo, Dürkop, Flenghi, Stirpe, Martelli, Stein: "CD30 (Ki-1) molecule: a new cytokine receptor of the tumor necrosis factor receptor superfamily as a tool for diagnosis and immunotherapy." in: **Blood**, Vol. 85, Issue 1, pp. 1-14, (1995) ([PubMed](#)).



Flow Cytometry

Image 1. Surface staining of K562 cells with anti-human CD30 (Ber-H8) PE.