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## 30-1073AC: APC Conjugated Anti-CD30 Monoclonal Antibody (Clone:Ber-H8)

Clonality: Monoclonal **Clone Name:** Ber-H8 **FACS** Application: Human Reactivity: Conjugate: APC Gene: **CD30** Gene ID: 943 P28908 **Uniprot ID:** 

Alternative Name: Ki-1; TNFRSF8; CD30L receptor; D1S166E

**Isotype:** Mouse IgG1 kappa

## **Description**

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.

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).

## **Product Info**

Amount: 100 tests

Purified antibody is conjugated with activated allophycocyanin (APC) under optimum conditions

**Purification:** and unconjugated antibody and free fluorochrome are removed by size-exclusion

chromatography.

**Content:** Formulation: Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide

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

## **Application Note**

Flow cytometry: The reagent is designed for analysis of human blood cells using 10  $\mu$ l reagent / 100  $\mu$ l of whole blood or 106 cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.



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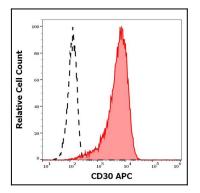


Figure 1: Separation of K562 cells stained using anti-human CD30 (Ber-H8) APC antibody (10  $\mu$ l reagent / 100  $\mu$ l of peripheral whole blood) from K562 cells stained using mouse IgG1 isotype control (MOPC-21) APC antibody (concentration in sample 5  $\mu$ g/ml, same as TCR gamma/delta APC concentration, black-dashed) in flow cytometry analysis (surface staining).