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30-1732: Anti-CD30 / Ki-1 Monoclonal Antibody (Clone:MEM-268)-APC Conjugated

Clonality :	Monoclonal
Clone Name :	MEM-268
Application :	FACS
Reactivity :	Human
Conjugate :	APC
Gene :	TNFRSF8
Gene ID :	943
Uniprot ID :	P28908
Alternative Name :	TNFRSF8,CD30,D1S166E
Isotype :	Mouse IgG
Immunogen Information :	Expression vector containing CD30 cDNA (booster suspension of THP-1 cell line)

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.

Product Info

Amount :	100 tests
Content :	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage condition :	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light.

Application Note

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.

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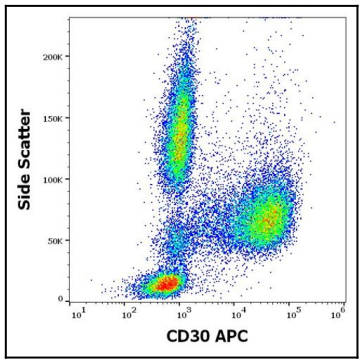

Figure 1: Flow cytometry surface staining pattern of human peripheral whole blood spiked with K562 cells stained using anti-human CD30 (MEM-268) APC antibody (concentration in sample 1 µg/ml).

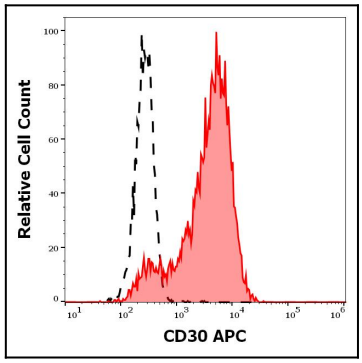

Figure 2: Separation of K562 cells stained using anti-human CD30 (MEM-268) APC antibody (concentration in sample 1 µg/ml, red-filled) from K562 cells stained using mouse IgG1 isotype control (MOPC-21) APC antibody (concentration in sample 1 µg/ml, same as CD30 APC concentration, black-dashed) in flow cytometry analysis (surface staining).