

30-1073AF700: Alexa Fluor 700 Conjugated Anti-Human CD30 Monoclonal Antibody(Clone: MEM-268)

Clonality :	Monoclonal
Clone Name :	MEM-268
Application :	FACS
Reactivity :	Human
Gene :	CD30
Gene ID :	943
Uniprot ID :	P28908
Alternative Name :	Ki-1; TNFRSF8; CD30L receptor; D1S166E
Isotype :	Mouse IgG2a kappa
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

Specificity: The antibody MEM-268 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
Purification :	Purified antibody is conjugated with Alexa Fluor 700 NHS ester under optimum conditions 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 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.

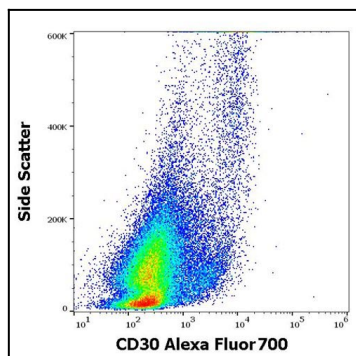


Figure 1: Flow cytometry surface staining pattern of human PHA stimulated peripheral blood mononuclear cells stained using anti-human CD30 (MEM-268) Alexa Fluor 700 antibody (4 μ l reagent per million cells in 100 μ l of cell suspension).

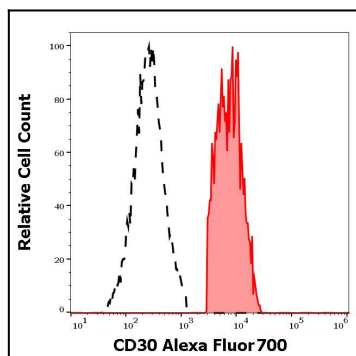


Figure 2: Separation of human CD30 positive cells (red-filled) from human CD30 negative cells (black-dashed) in flow cytometry analysis (surface staining) of human PHA stimulated peripheral blood mononuclear cells stained using anti-human CD30 (MEM-268) Alexa Fluor 700 antibody (4 μ l reagent per million cells in 100 μ l of cell suspension).