

## 30-1315-AF700: Anti-CD30 / Ki-1 Monoclonal Antibody (Clone:MEM-268) Alexa Fluor 700

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	MEM-268
<b>Application :</b>	FACS
<b>Reactivity :</b>	Human
<b>Gene :</b>	TNFRSF8
<b>Gene ID :</b>	943
<b>Uniprot ID :</b>	P28908
<b>Format :</b>	Purified
<b>Alternative Name :</b>	TNFRSF8,CD30,D1S166E
<b>Isotype :</b>	Mouse IgG 2a, kappa
<b>Immunogen Information :</b>	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

<b>Amount :</b>	100 tests
<b>Purification :</b>	Purified by protein-A affinity chromatography
<b>Content :</b>	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
<b>Storage condition :</b>	Store at 2-8°C. 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 10<sup>6</sup> cells in a suspension. The content of a vial (0.4 ml) is sufficient for 100 tests.

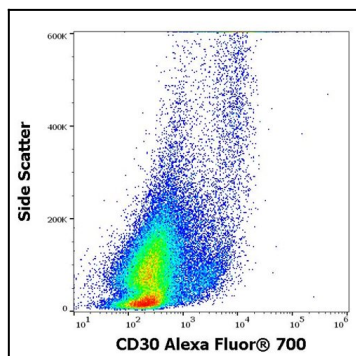


Figure 1:Flow cytometry surface staining pattern of human PHA stimulated peripheral blood mononuclear cells stained using anti-human CD30 (MEM-268) Alexa Fluor® 700 antibody (4 µl reagent per milion cells in 100 µl of cell suspension).

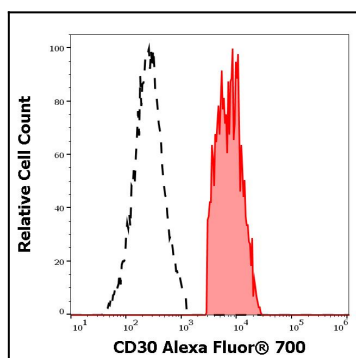


Figure 2: Separation of human CD30 positive cells (red-filled) from human CD30 negative cells (black-dashed) in flow cytometry analysis (surface staining) of human PHA stimulated peripheral blood mononuclear cells stained using anti-human CD30 (MEM-268) Alexa Fluor® 700 antibody (4 µl reagent per milion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