

30-1346-B: Anti-CD2 / LFA-2 Monoclonal Antibody (Clone:LT2)-Biotin Conjugated

Clonality :	Monoclonal
Clone Name :	LT2
Application :	IP,FACS
Reactivity :	Human
Conjugate :	Biotin
Gene :	CD2
Gene ID :	914
Uniprot ID :	P06729
Alternative Name :	T-cell surface antigen CD2, Erythrocyte receptor, T-cell surface antigen T11/Leu-5
Isotype :	Mouse IgG2b
Immunogen Information :	Normal human blood lymphocytes.

Description

Specificity: The antibody LT2 reacts with an extracellular epitope of CD2, a 50 kDa glycoprotein present on the human peripheral blood T lymphocytes and NK cells; also expressed by all thymocytes.

CD2 belongs to T lymphocyte glycoproteins of immunoglobulin superfamily. Its interaction with CD58 stabilizes adhesion between T cells and antigen presenting or target cells. Relatively low affinity of CD2 to CD58 (as measured in solution) is compensated within the two-dimensional cell-cell interface to provide tight adhesion. Moreover, T cell activation induces increased CD2 expression and its lateral mobility, making easier contact between CD2 and CD58. Subsequently, T cell activation causes fixation of CD58-CD2 at sites of cell-cell contact, thereby strengthening intercellular adhesion. CD2 deficiency reduces intestinal inflammation and helps to control infection.

Product Info

Amount :	0.1 mg
Purification :	Purified antibody is conjugated with biotin LC-NHS ester under optimum conditions and unconjugated antibody and free biotin are removed by size-exclusion chromatography.
Content :	Concentration: 1 mg/ml Content: Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage condition :	Store at 2-8°C. Do not freeze.

Application Note

Flow cytometry: Recommended dilution: 1-5 µg/ml.

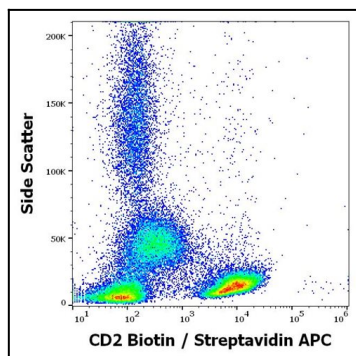


Figure 1: Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD2 (LT2) Biotin antibody (concentration in sample 0.19 µg/ml, streptavidin APC).

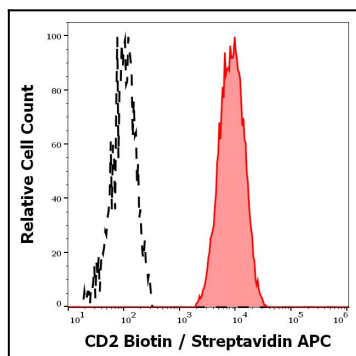


Figure 2: Separation of human CD2 positive lymphocytes (red-filled) from CD5 negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD2 (LT2) Biotin antibody (concentration in sample 0.19 µg/ml, streptavidin APC).