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# anti-CD2 antibody (PE)

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**Publications** 



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#### Overview

Quantity:	100 tests
Target:	CD2
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD2 antibody is conjugated to PE
Application:	Flow Cytometry (FACS)
Product Details	
Immunogen:	Normal human blood lymphocytes.
Clone:	LT2
Isotype:	lgG2b

Cross-Reactivity (Details):	Human	

Purification: Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions.

Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

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.

## Target Details

Specificity:

Target: CD2

## **Target Details**

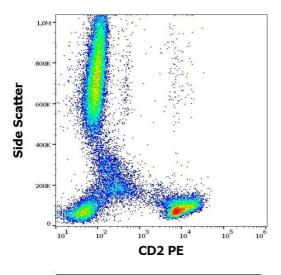
Alternative Name:	CD2 (CD2 Products)	
Background:	CD2 Molecule,CD2 belongs to T lymphocyte glycoproteins of immunoglobulin superfamily. Its interaction with CD58 stabilizes adhesion between T cells and antigen presenting or target cells. Relatively low affinity of CD2 to CD58 (as measured in solution) 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.,T11, LFA-2, SRBC	
Gene ID:	914	
UniProt:	P06729	
Application Details		
Application Notes:	Flow cytometry: The reagent is designed for analysis of human blood cells using 20 $\mu$ L reagent / 100 $\mu$ L of whole blood or 10 <sup>6</sup> cells in a suspension. The content of a vial (2 ml) is sufficient fo 100 tests.	
Comment:	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.	
Restrictions:	For Research Use only	
Handling		
Reconstitution:	No reconstitution is necessary.	
Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide	
Preservative:	Sodium azide	
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.	
Handling Advice:	Do not freeze.  Avoid prolonged exposure to light.	
Storage:	4 °C	
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.	

Product cited in:

Lin, Liu, Chen, Wang, Medeiros, Hsu: "CD94 1A transcripts characterize lymphoblastic lymphoma/leukemia of immature natural killer cell origin with distinct clinical features." in: **Blood**, Vol. 106, Issue 10, pp. 3567-74, (2005) (PubMed).

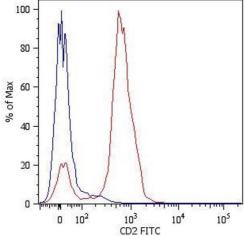
Gannon, Rhind, Suzui, Zamecnik, Sabiston, Shek, Shephard: "beta-Endorphin and natural killer cell cytolytic activity during prolonged exercise. is there a connection?" in: **The American journal of physiology**, Vol. 275, Issue 6 Pt 2, pp. R1725-34, (1999) (PubMed).

## **Images**



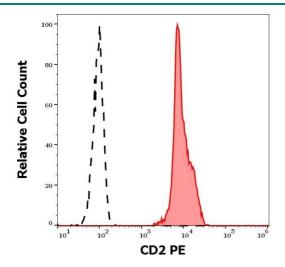
## **Flow Cytometry**

**Image 1.** Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD2 (LT2) PE antibody (20  $\mu$ L reagent / 100  $\mu$ L of peripheral whole blood).



#### **Flow Cytometry**

**Image 2.** Surface staining of human peripheral blood cells with anti-human CD2 (LT2) FITC. Cells in the lymphocyte gate were used for analysis.



### **Flow Cytometry**

**Image 3.** Separation of human CD2 positive lymphocytes (red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD2 (LT2) PE antibody (20  $\mu$ L reagent / 100  $\mu$ L of peripheral whole blood).