

Datasheet for ABIN125760  
**anti-CD2 antibody (FITC)**[Go to Product page](#)

3 Images

1 Publication

## Overview

Quantity:	100 tests
Target:	CD2
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD2 antibody is conjugated to FITC
Application:	Flow Cytometry (FACS)

## Product Details

Immunogen:	Normal human blood lymphocytes.
Clone:	LT2
Isotype:	IgG2b
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.
Cross-Reactivity (Details):	Human
Purification:	Purified antibody is conjugated with fluorescein isothiocyanate (FITC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

## Target Details

Target:	CD2
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## Target Details

Alternative Name:	CD2 ( <a href="#">CD2 Products</a> )
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:	<a href="#">P06729</a>

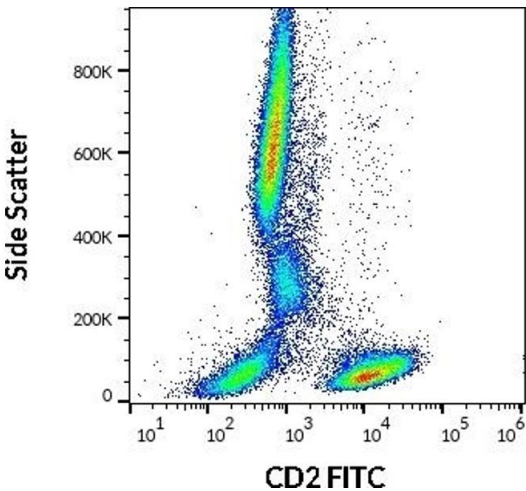
## Application Details

Application Notes:	Flow cytometry: The reagent is designed for analysis of human blood cells using 20 µL reagent / 100 µL of whole blood or 10 <sup>6</sup> cells in a suspension. The content of a vial (2 ml) is sufficient for 100 tests.
Comment:	The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC and adjusted for direct use. No reconstitution is necessary.
Restrictions:	For Research Use only

## Handling

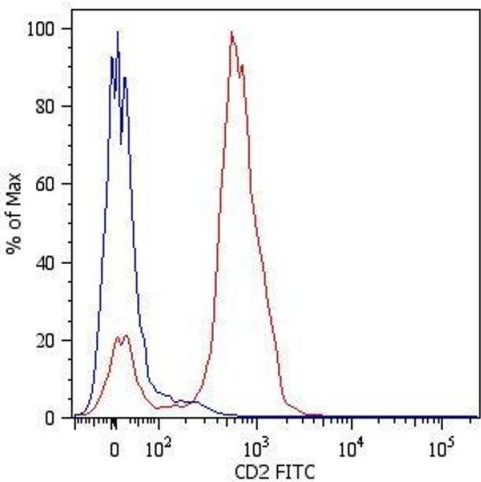
Reconstitution:	No reconstitution is necessary.
Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	<b>Do not freeze.</b> 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: 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](#)).



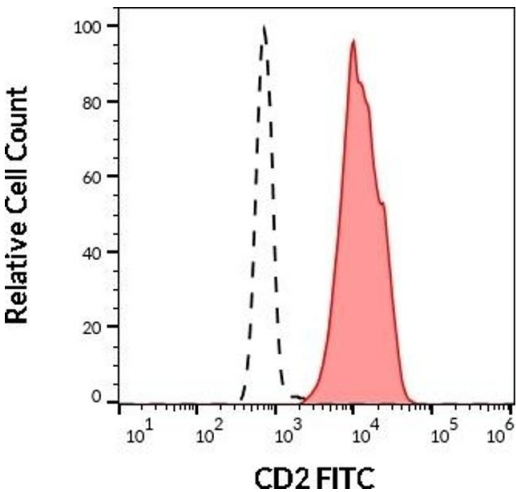
Flow Cytometry

**Image 1.** Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD2 (LT2) FITC antibody (20 µL reagent / 100 µL 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) FITC antibody (20 µL reagent / 100 µL of peripheral whole blood).