

Datasheet for ABIN2749021

**anti-CD2 antibody**[Go to Product page](#)**2** Images**1** Publication

## Overview

Quantity:	0.1 mg
Target:	CD2
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD2 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Functional Studies (Func)

## Product Details

Immunogen:	Cytotoxic T lymphocytes
Clone:	TS1-8
Isotype:	IgG1 kappa
Specificity:	The mouse monoclonal antibody TS1/8 recognizes 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 by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)
Endotoxin Level:	Endotoxin level is less than 0.01 EU/µg of the protein, as determined by the LAL test.

## Target Details

Target:	CD2
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

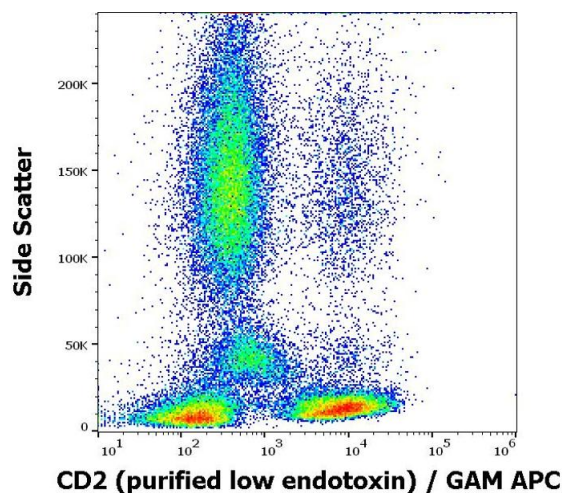
Application Notes:	Functional application: Blocking. Flow cytometry: Recommended dilution: 1-4 µg/mL
Restrictions:	For Research Use only

## Handling

Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4
Preservative:	Azide free
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

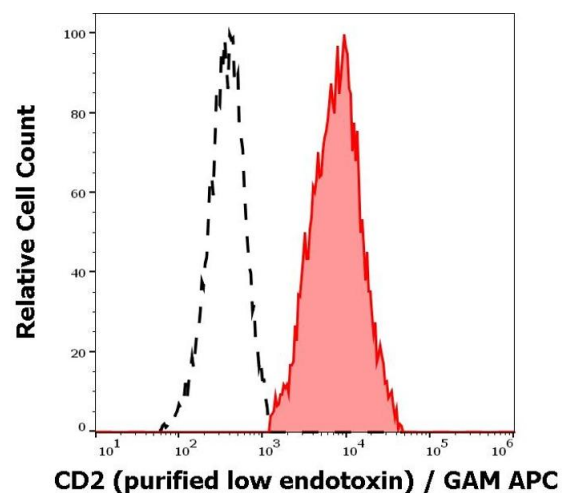
## Publications

Product cited in:	Zhang, Dai, Li, Zhuang: "Tracking proliferative history in lymphocyte development with cre-mediated sister chromatid recombination." in: <b>PLoS genetics</b> , Vol. 9, Issue 10, pp. e1003887, (2013) ( <a href="#">PubMed</a> ).
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### Flow Cytometry

**Image 1.** Flow cytometry surface staining pattern of human peripheral blood stained using anti-human CD2 (TS1/8) purified antibody (low endotoxin, concentration in sample 4 µg/mL) GAM APC.



### Flow Cytometry

**Image 2.** 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 (TS1/8) purified antibody (low endotoxin, concentration in sample 4 µg/mL) GAM APC.