

Datasheet for ABIN94021

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

## Overview

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

## Product Details

Immunogen:	Human peripheral T cells.
Clone:	MEM-65
Isotype:	IgG1
Specificity:	The antibody MEM-65 recognizes a unique 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)

## 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:	Flow cytometry: Recommended dilution: 1-4 µg/mL.
Restrictions:	For Research Use only

## Handling

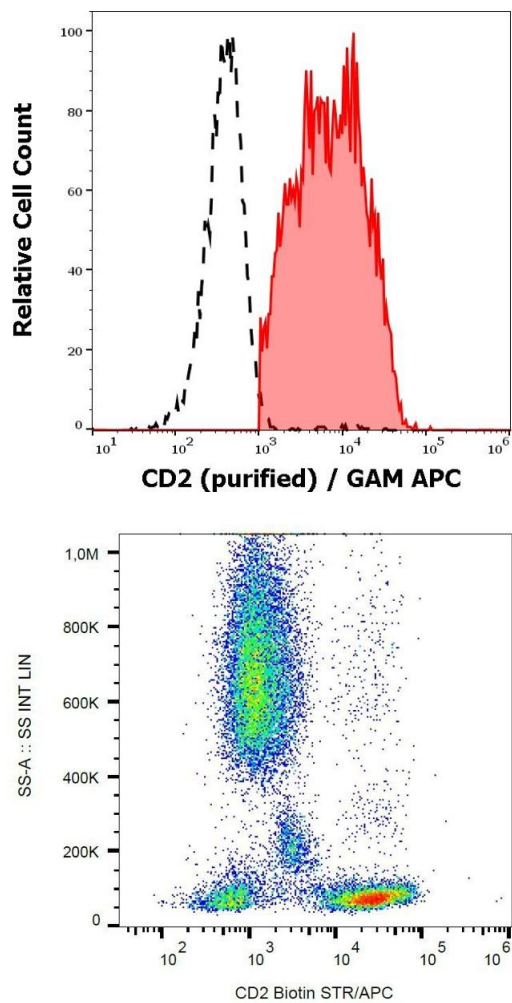
Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	<b>Do not freeze.</b>
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

## Publications

Product cited in:	Espagnolle, Depoil, Zaru, Demeur, Champagne, Guiraud, Valitutti: "CD2 and TCR synergize for the activation of phospholipase Cgamma1/calcium pathway at the immunological synapse." in: <b>International immunology</b> , Vol. 19, Issue 3, pp. 239-48, (2007) ( <a href="#">PubMed</a> ).
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Drbal, Hilgert, Cebecauer, Angelisová, Horejsí: "New monoclonal antibodies to human leucocyte surface molecule CD2." in: **Folia biologica**, Vol. 43, Issue 6, pp. 245-6, (1998) ([PubMed](#)).

Images



Flow Cytometry

**Image 1.** Separation of human CD2 positive lymphocytes (red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (surface staining) of peripheral whole blood stained using anti-human CD2 (MEM-65) purified antibody (concentration in sample 0,6 µg/mL, GAM APC).

Flow Cytometry

**Image 2.** Surface staining of human peripheral blood with anti-human CD2 (MEM-65) purified, GAM-APC.