

Datasheet for ABIN343728  
**anti-CD81 antibody (PE)**[Go to Product page](#)

3 Images

4 Publications

## Overview

Quantity:	100 tests
Target:	CD81
Reactivity:	Human, Rabbit, Cat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD81 antibody is conjugated to PE
Application:	Flow Cytometry (FACS)

## Product Details

Immunogen:	MOLT-4 (human T-ALL cell line)
Clone:	M38
Isotype:	IgG1
Specificity:	The antibody M38 reacts with an extracellular epitope of CD81, a 25 kDa member of the tetraspanin family, expressed on majority of cells.
Cross-Reactivity (Details):	Human, Feline (Cat), Rabbit
Purification:	Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

## Target Details

Target:	CD81
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## Target Details

Alternative Name:	CD81 ( <a href="#">CD81 Products</a> )
Background:	CD81 Molecule,CD81 (TAPA-1), a member of the tetraspanin family, is expressed on virtually all nucleated cells, but above all on germinal center B cells. CD81 forms complexes with other tetraspanin proteins, integrins, coreceptors, MHC class I and II molecules, and influences adhesion, morphology, activation, proliferation and differentiation of B, T and other cells, e.g. in muscles CD81 promotes cell fusion and myotube maintenance. CD81 has been also identified as a receptor for the hepatitis C virus.,S5.7, CVID6, TAPA1, TSPAN28
Gene ID:	975
UniProt:	<a href="#">P60033</a>
Pathways:	<a href="#">Inositol Metabolic Process</a> , <a href="#">Hepatitis C</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 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:	<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.

## Publications

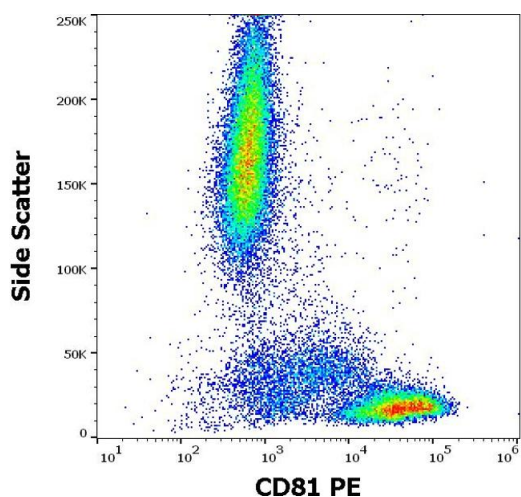
Product cited in: Escola, Kleijmeer, Stoorvogel, Griffith, Yoshie, Geuze: "Selective enrichment of tetraspan proteins on the internal vesicles of multivesicular endosomes and on exosomes secreted by human B-lymphocytes." in: **The Journal of biological chemistry**, Vol. 273, Issue 32, pp. 20121-7, (1998) ([PubMed](#)).

Imai, Kakizaki, Nishimura, Yoshie: "Molecular analyses of the association of CD4 with two members of the transmembrane 4 superfamily, CD81 and CD82." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 155, Issue 3, pp. 1229-39, (1995) ([PubMed](#)).

Imai, Yoshie et al.: "C33 antigen and M38 antigen recognized by monoclonal antibodies inhibitory to syncytium formation by human T cell leukemia virus type 1 are both members of the transmembrane 4 superfamily and ..." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 151, Issue 11, pp. 6470-81, (1994) ([PubMed](#)).

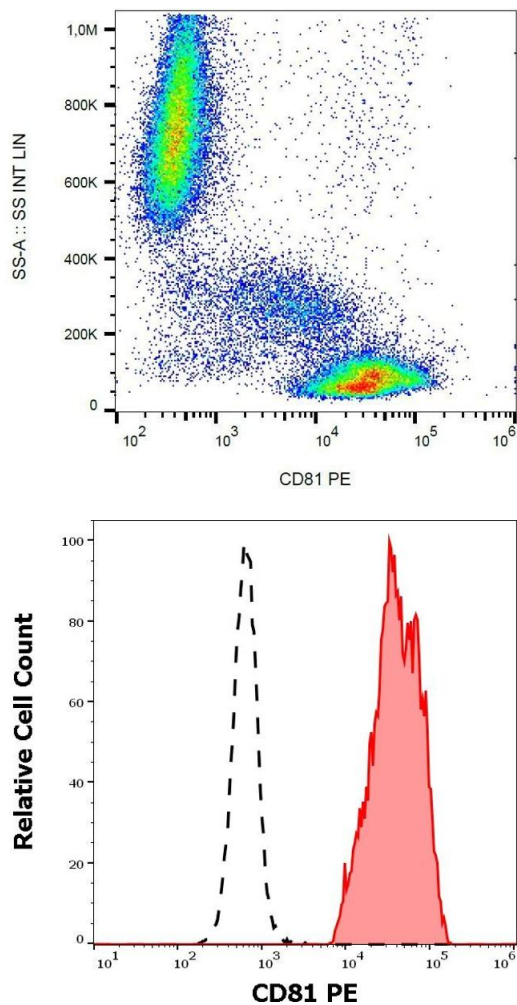
Fukudome, Furuse, Imai, Nishimura, Takagi, Hinuma, Yoshie et al.: "Identification of membrane antigen C33 recognized by monoclonal antibodies inhibitory to human T-cell leukemia virus type 1 (HTLV-1)-induced syncytium formation: altered glycosylation of C33 antigen ..." in: **Journal of virology**, Vol. 66, Issue 3, pp. 1394-401, (1992) ([PubMed](#)).

## Images



### Flow Cytometry

**Image 1.** Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD81 (M38) PE antibody (20 µL reagent / 100 µL of peripheral whole blood).



### Flow Cytometry

**Image 2.** Surface staining of CD81 in human peripheral blood with anti-CD81 (M38) PE.

### Flow Cytometry

**Image 3.** Separation of human lymphocytes (red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD81 (M38) PE antibody (20 µL reagent / 100 µL of peripheral whole blood).