


## Product datasheet

# Anti-CD81 antibody [1D6] ab23505

KO VALIDATED

[1 Abreviews](#) [13 References](#) [1 Image](#)

### Overview

<b>Product name</b>	Anti-CD81 antibody [1D6]
<b>Description</b>	Mouse monoclonal [1D6] to CD81
<b>Host species</b>	Mouse
<b>Specificity</b>	ab23505 recognises human CD81, a 26kD cell surface antigen also known as TAPA-1, and a member of the tetraspanin family.
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt <b>Unsuitable for:</b> WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Sheep, Goat, Chimpanzee 
<b>Immunogen</b>	Tissue, cells or virus corresponding to Human CD81. Aggregated OCHLY8 cells (Human).
<b>Positive control</b>	Flow Cyt: HAP1-WT cells.
<b>General notes</b>	

This antibody induces homotypic adhesion and has powerful anti proliferative effects.

The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term.
<b>Storage buffer</b>	pH: 7.40 Preservative: 0.09% Sodium azide Constituent: PBS

<b>Purity</b>	Protein G purified
<b>Primary antibody notes</b>	This antibody induces homotypic adhesion and has powerful anti proliferative effects.
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	1D6
<b>Myeloma</b>	P3x63-Ag8.653
<b>Isotype</b>	IgG1

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab23505 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

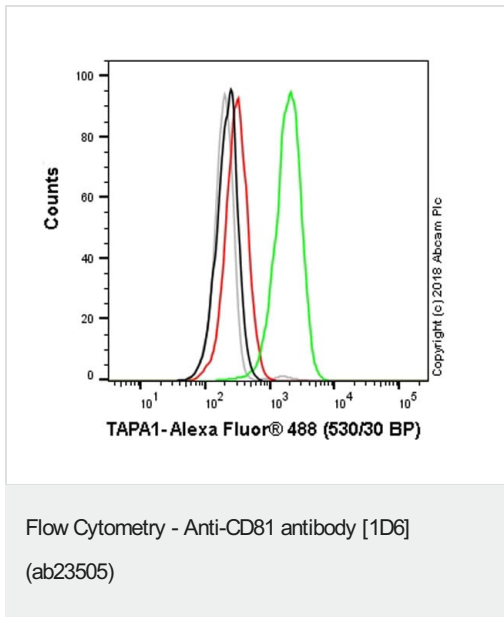
Application	Abreviews	Notes
Flow Cyt		1/5 - 1/10. <b>ab170190</b> - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

**Application notes** Is unsuitable for WB.

## Target

<b>Function</b>	May play an important role in the regulation of lymphoma cell growth. Interacts with a 16-kDa Leu-13 protein to form a complex possibly involved in signal transduction. May acts a the viral receptor for HCV.
<b>Tissue specificity</b>	Hematolymphoid, neuroectodermal and mesenchymal tumor cell lines.
<b>Involvement in disease</b>	Defects in CD81 are the cause of immunodeficiency common variable type 6 (CVID6) [MIM:613496]; also called antibody deficiency due to CD81 defect. CVID6 is a primary immunodeficiency characterized by antibody deficiency, hypogammaglobulinemia, recurrent bacterial infections and an inability to mount an antibody response to antigen. The defect results from a failure of B-cell differentiation and impaired secretion of immunoglobulins; the numbers of circulating B cells is usually in the normal range, but can be low.
<b>Sequence similarities</b>	Belongs to the tetraspanin (TM4SF) family.
<b>Post-translational modifications</b>	Not glycosylated.
<b>Cellular localization</b>	Membrane.

## Images



Overlay histogram showing HAP1 wildtype (green line) and HAP1-CD81 knockout cells (red line) stained with ab23505. The cells were fixed with 4% formaldehyde (10 min) and then permeabilized with 0.1% PBS-Triton X-100 for 15 min. The cells were then incubated in 1x PBS / 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (ab23505, 0.1 µg/ml) for 30 min at 22°C. The secondary antibody used was Alexa Fluor® 488 goat anti-mouse IgG (H&L) presorbed (**ab150117**) at 1/2000 dilution for 30 min at 22°C.

A mouse IgG1 isotype control antibody (**ab170190**) was used at the same concentration and conditions as the primary antibody (HAP1 wildtype - black line, HAP1-CD81 knockout - grey line). Unlabelled sample was also used as a control (this line is not shown for the purpose of simplicity).

Acquisition of >5,000 events were collected using a 50 mW Blue laser (488nm) and 530/30 bandpass filter.

This antibody can also be used in HAP1 cells fixed with 80% methanol (5 min), permeabilized with 0.1% PBS-Triton X-100 for 15 min under the same conditions.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

### Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

### Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors