

PE Anti-CD81 antibody [Eat 2] ab23553

[1 Image](#)

Overview

Product name	PE Anti-CD81 antibody [Eat 2]
Description	PE Armenian hamster monoclonal [Eat 2] to CD81
Host species	Armenian hamster
Conjugation	PE. Ex: 488nm, Em: 575nm
Specificity	ab23553 recognises CD81, a 26kD cell surface glycoprotein that is also known as TAPA-1.
Tested applications	Suitable for: Flow Cyt
Species reactivity	Reacts with: Mouse
Immunogen	Tissue, cells or virus. This information is proprietary to Abcam and/or its suppliers.
Positive control	Flow Cyt: Mouse blood
General notes	<p>Myeloma: Spleen cells from immunised Armenian hamsters were fused with cells of the mouse PX3-Ag.8.653 myeloma cell line.</p> <p>Purified IgG conjugated to R. Phycoerythrin (RPE).</p> <p>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.</p> <p>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</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	<p>pH: 7.40</p> <p>Preservative: 0.09% Sodium azide</p> <p>Constituents: PBS, 1% BSA</p>
Purity	Protein G purified
Clonality	Monoclonal
Clone number	Eat 2

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab23553 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		

Application notes

Flow Cyt: 1/heat.
Use 10µl for 10⁶ cells in 100µl.

Note: ab23553 induces homotypic aggregation of B cells and inhibits anti Ig and IL4 induced proliferation. ab23553 requires the presence of both extracellular loops of TAPA1 for binding.

Not tested in other applications.
Optimal dilutions/concentrations should be determined by the end user.

Target

Function

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.

Tissue specificity

Hematolymphoid, neuroectodermal and mesenchymal tumor cell lines.

Involvement in disease

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.

Sequence similarities

Belongs to the tetraspanin (TM4SF) family.

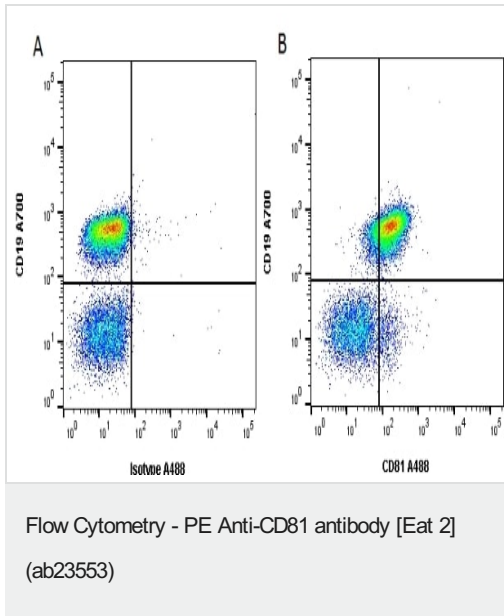
Post-translational modifications

Not glycosylated.

Cellular localization

Membrane.

Images



Flow cytometric analysis of mouse blood labelling CD81 with ab23553 at 1/10 dilution (Right). Compared with Alexa Fluor® 700 conjugated hamster IgG1 isotype control (Left). Gated on live, single lymphocytes in the presence of 10% mouse serum. Cells were stained with Alexa Fluor 700 conjugated Rat anti Mouse CD19. Data acquired on the ZE5™ Cell Analyzer.

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

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