

Product datasheet

PE Anti-CD18 antibody [MEM-48] ab49921

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

Overview

Product name	PE Anti-CD18 antibody [MEM-48]
Description	PE Mouse monoclonal [MEM-48] to CD18
Host species	Mouse
Conjugation	PE. Ex: 488nm, Em: 575nm
Tested applications	Suitable for: Flow Cyt
Species reactivity	Reacts with: Human
Immunogen	Tissue, cells or virus corresponding to Human CD18. Leucocytes of a patient suffering from a LGL-type leukaemia
Epitope	ab49921 recognizes an epitope involving residues 534-546 in cysteine-rich repeat 3 of the CD18 antigen (integrin b2 subunit; b2 integrin).
Positive control	Human whole blood.
General notes	<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: 7.4</p> <p>Preservative: 0.097% Sodium azide</p> <p>Constituents: PBS, 0.2% BSA</p>
Purity	Size exclusion
Clonality	Monoclonal
Clone number	MEM-48
Isotype	IgG1

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab49921 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: Use 20µl for 10⁶ cells, or for 100 µl of whole blood.

Not yet tested in other applications.

Optimal dilutions/concentrations should be determined by the end user.

Target

Function

Integrin alpha-L/beta-2 is a receptor for ICAM1, ICAM2, ICAM3 and ICAM4. Integrins alpha-M/beta-2 and alpha-X/beta-2 are receptors for the iC3b fragment of the third complement component and for fibrinogen. Integrin alpha-X/beta-2 recognizes the sequence G-P-R in fibrinogen alpha-chain. Integrin alpha-M/beta-2 recognizes P1 and P2 peptides of fibrinogen gamma chain. Integrin alpha-M/beta-2 is also a receptor for factor X. Integrin alpha-D/beta-2 is a receptor for ICAM3 and VCAM1.

Involvement in disease

Defects in ITGB2 are the cause of leukocyte adhesion deficiency type 1 (LAD1) [MIM:116920]. LAD1 patients have recurrent bacterial infections and their leukocytes are deficient in a wide range of adhesion-dependent functions.

Sequence similarities

Belongs to the integrin beta chain family.
Contains 1 VWFA domain.

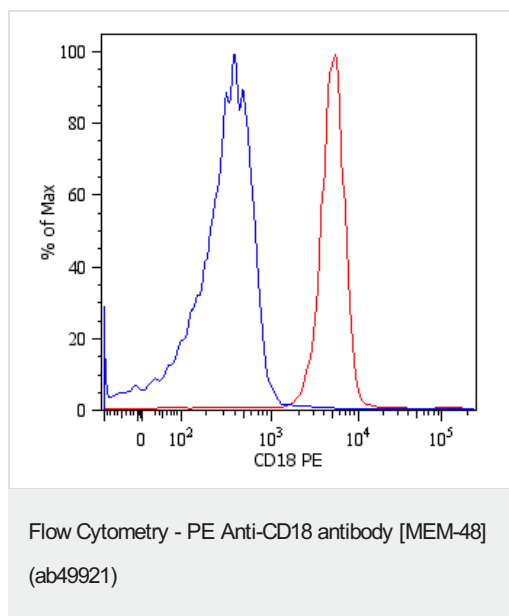
Post-translational modifications

Both Ser-745 and Ser-756 become phosphorylated when T-cells are exposed to phorbol esters. Phosphorylation on Thr-758 (but not on Ser-756) allows interaction with 14-3-3 proteins.

Cellular localization

Membrane.

Images



Surface staining of human peripheral blood cells with anti-human CD18. Cells in the granulocyte gate were used for analysis.

ab49921 was used at a recommended concentration of 2 µg/mL.

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

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