

APC Anti-CD18 antibody [MEM-48], prediluted ab40914

2 References

Overview

Product name	APC Anti-CD18 antibody [MEM-48], prediluted
Description	APC Mouse monoclonal [MEM-48] to CD18, prediluted
Host species	Mouse
Conjugation	APC. Ex: 645nm, Em: 660nm
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	This antibody recognizes an epitope including amino acids 534-546 in the cysteine-rich repeat 3 of the CD18 antigen.
General notes	<p>The conjugate was purified by size-exclusion chromatography and adjusted for direct use.</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	pH: 7.4 Preservative: 0.097% Sodium azide Constituents: PBS, 0.2% BSA
Clonality	Monoclonal
Clone number	MEM-48
Isotype	IgG1

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab40914 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 neat - 20µl reagent/ 100µl of whole blood or 10⁶ cells in a suspension.
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.

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