

Product datasheet

PE/Cy5® Anti-CD11b antibody [M1/70] ab25533

★★★★☆ [13 Abreviews](#) [9 References](#) [4 Images](#)

Overview

Product name	PE/Cy5® Anti-CD11b antibody [M1/70]
Description	PE/Cy5® Rat monoclonal [M1/70] to CD11b
Host species	Rat
Conjugation	PE/Cy5®. Ex: 496nm, Em: 670nm
Tested applications	Suitable for: Flow Cyt
Species reactivity	Reacts with: Mouse
Immunogen	Tissue/ cell preparation (Mouse) - C57BL/10 mouse splenic T cells and concanavalin A activated C57BL/10 splenocytes.
Positive control	Mouse spleen cells.
General notes	<p>This product or portions thereof is manufactured under license from Carnegie Mellon University under U.S. Patent Number 5, 268, 486 and related patents. Cy® and CyDye® are trademarks of Cytiva.</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: 7.20</p> <p>Preservative: 0.09% Sodium azide</p> <p>Constituents: 0.1% Gelatin, 0.14% Monobasic dihydrogen sodium phosphate, 0.87% Sodium chloride</p>
Purity	Affinity purified
Clonality	Monoclonal

Clone number	M1/70
Isotype	IgG2b
Light chain type	kappa

Applications

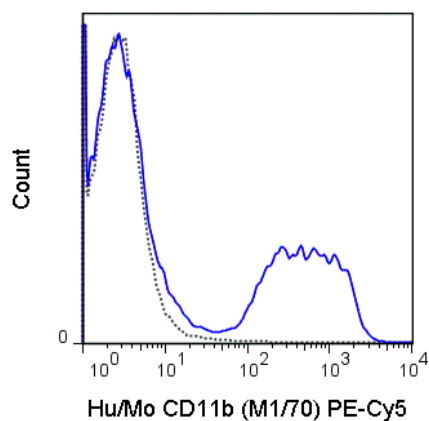
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab25533 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt	★★★★★ (11)	Use at an assay dependent concentration.

Target

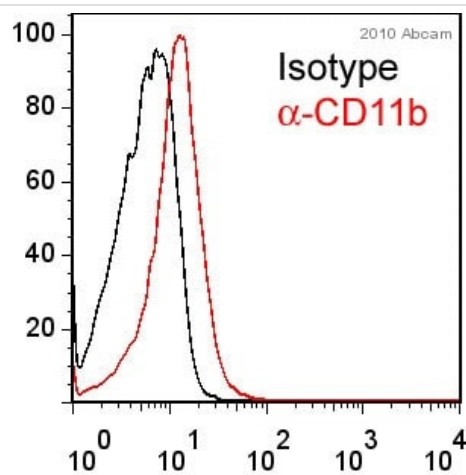
Function	Integrin alpha-M/beta-2 is implicated in various adhesive interactions of monocytes, macrophages and granulocytes as well as in mediating the uptake of complement-coated particles. It is identical with CR-3, the receptor for the iC3b fragment of the third complement component. It probably recognizes the R-G-D peptide in C3b. Integrin alpha-M/beta-2 is also a receptor for fibrinogen, factor X and ICAM1. It recognizes P1 and P2 peptides of fibrinogen gamma chain.
Tissue specificity	Predominantly expressed in monocytes and granulocytes.
Involvement in disease	Genetic variations in ITGAM has been associated with susceptibility to systemic lupus erythematosus type 6 (SLEB6) [MIM:609939]. Systemic lupus erythematosus (SLE) is a chronic, inflammatory and often febrile multisystemic disorder of connective tissue. It affects principally the skin, joints, kidneys and serosal membranes. It is thought to represent a failure of the regulatory mechanisms of the autoimmune system.
Sequence similarities	Belongs to the integrin alpha chain family. Contains 7 FG-GAP repeats. Contains 1 VWFA domain.
Domain	The integrin I-domain (insert) is a VWFA domain. Integrins with I-domains do not undergo protease cleavage.
Cellular localization	Membrane.

Images



Flow Cytometry analysis of C57Bl/6 bone marrow cells labeling CD11b with ab25533 at 0.125 μ g (solid line) or Rat IgG2b (PE/Cy5[®]) isotype control at 0.125 μ g (dashed line).

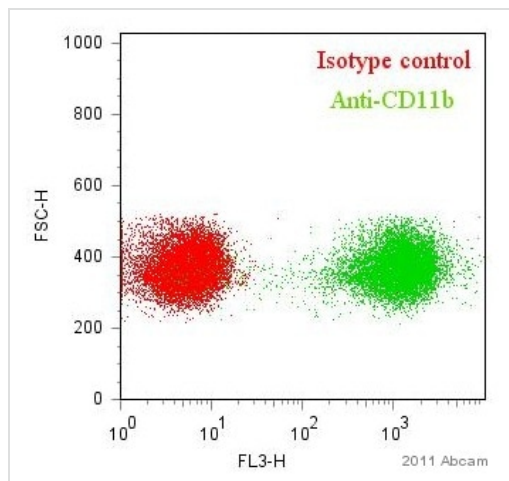
Flow Cytometry - PE/Cy5[®] Anti-CD11b antibody
[M1/70] (ab25533)



ab25533 staining CD11b in Human leukocytes by Flow Cytometry. Cells were prepared for staining after red blood cell lysis and were fixed in paraformaldehyde. The sample was incubated with the primary antibody (1/50 in PBS/BSA 1%) for 30 minutes at 4°C. Gating strategy: Neutrophils.

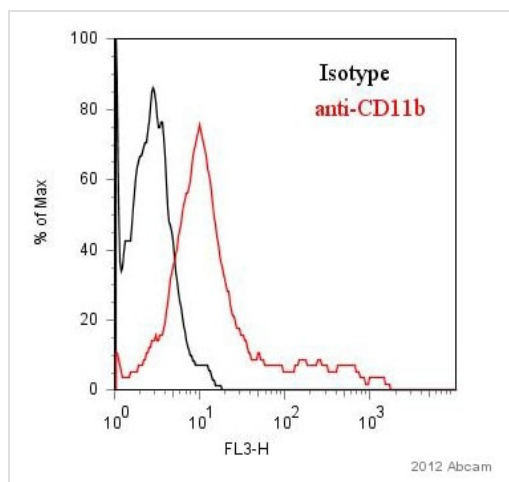
Flow Cytometry - PE/Cy5[®] Anti-CD11b antibody
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This image is courtesy of an anonymous Abreview



Flow Cytometry - PE/Cy5® Anti-CD11b antibody
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Scatter plot showing mouse blood leukocyte cells stained with ab25533 (green). The cells were harvested from blood drawn from mice and prepared in PBS/BSA 1%. Cells were fixed in formaldehyde. The cells were then incubated in 1x PBS / 1% BSA to block non-specific protein-protein interactions followed by the antibody (1/100) for 30 min at 4°C. Isotype control antibody (red) was used under the same conditions.



Flow Cytometry - PE/Cy5® Anti-CD11b antibody
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This image is courtesy of an anonymous Abreview

ab25533 staining CD11b in Rat splenocytes by Flow Cytometry. Rat spleen was homogenized and red blood cells were lysed in PBS + 1% BSA and 0.01% sodium azide. The sample was incubated with the primary antibody (1/100 in PBS + 1% BSA and 0.01% sodium azide) for 1 hour at 4°C.

Gating Strategy: Live Macrophages.

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