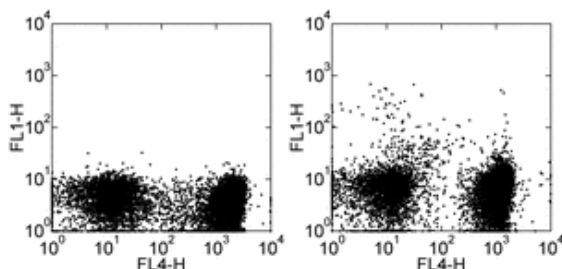


Anti-Mouse CD11c Alexa Fluor[®] 488

Catalog Number: 53-0114

Also Known As: Integrin alpha X, Integrin aX, ITGAX, p150/95, Ieu M5 alpha

RUO: For Research Use Only



Staining of C57BL/6 splenocytes with Anti-Human/Mouse CD45R (B220) APC (cat. 17-0452) and staining buffer (autofluorescence) (left) or 0.125 µg of Anti-Mouse CD11c Alexa Fluor[®] 488 (right). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Mouse CD11c Alexa Fluor[®] 488


REF Catalog Number: 53-0114

Clone: N418

Concentration: 0.5 mg/ml


Host/Isotype: Armenian Hamster IgG

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

 Temperature Limitation: Store at 2-8°C. Do not freeze. Light sensitive material.

LOT Batch Code: Refer to Vial

 Use By: Refer to Vial

 Caution, contains Azide

Description

The N418 monoclonal antibody reacts with mouse CD11c, the integrin α_x . CD11c non-covalently associates with β_2 integrin to form the CD11c/CD18 heterodimer. CD11c is expressed by dendritic cells, a subset of Intestinal Intraepithelial Lymphocytes (IEL) and some activated T cells. CD11c/CD18 binds to CD54, iC3b and fibrinogen and plays a role in leukocyte adhesive interactions. N418 binds to CD11c on splenic dendritic cells in the T-dependent areas of mouse spleen and precipitates a 150, 90 kDa heterodimer.

Applications Reported

This N418 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This N418 antibody has been tested by flow cytometric analysis of mouse splenocyte suspensions. This can be used at less than or equal to 0.25 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Xin KQ, Mizukami H, Urabe M, Toda Y, Shinoda K, Yoshida A, Oomura K, Kojima Y, Ichino M, Klinman D, Ozawa K, Okuda K. Induction of robust immune responses against human immunodeficiency virus is supported by the inherent tropism of adeno-associated virus type 5 for dendritic cells. *J Virol.* 2006 Dec;80(24):11899-910. (N418, FC, PubMed)

Ohteki T, Tada H, Ishida K, Sato T, Maki C, Yamada T, Hamuro J, Koyasu S. Essential roles of DC-derived IL-15 as a mediator of inflammatory responses in vivo. *J Exp Med.* 2006 Oct 2;203(10):2329-38. (N418, IHC frozen, PubMed)

Zhang J, Kawashima N, Suda H, Nakano Y, Takano Y, Azuma M. The existence of CD11c+ sentinel and F4/80+ interstitial dendritic cells in dental pulp and their dynamics and functional properties. *Int Immunol.* 2006 Sep;18(9):1375-84. (N418, IHC frozen, PubMed)

Guiducci C, Vicari AP, Sangaletti S, Trinchieri G, Colombo MP. Redirecting in vivo elicited tumor infiltrating macrophages and dendritic cells towards tumor rejection. *Cancer Res.* 2005 Apr 15;65(8):3437-46. (N418, IHC frozen, PubMed)

Esche C, Gambotto A, Satoh Y, Gerein V, Robbins PD, Watkins SC, Lotze MT, Shurin MR. CD154 inhibits tumor-induced apoptosis in dendritic cells and tumor growth. *Eur J Immunol.* 1999 Jul;29(7):2148-55.

Finkelman FD, Lees A, Birnbaum R, Gause WC, Morris SC. Dendritic cells can present antigen in vivo in a tolerogenic or immunogenic fashion. *J*

Immunol. 1996 Aug 15;157(4):1406-14.

Crowley MT, Inaba K, Witmer-Pack MD, Gezelter S, Steinman RM. Use of the fluorescence activated cell sorter to enrich dendritic cells from mouse spleen. J Immunol Methods. 1990 Oct 4;133(1):55-66.

Metlay JP, Witmer-Pack MD, Agger R, Crowley MT, Lawless D, Steinman RM. The distinct leukocyte integrins of mouse spleen dendritic cells as identified with new hamster monoclonal antibodies. J Exp Med. 1990 May 1;171(5):1753-71.

Related Products

53-4888 Armenian Hamster IgG Isotype Control Alexa Fluor® 488 (eBio299Arm)

Legal

Alexa Fluor® and Pacific Blue® are registered trademarks of and licensed under patents assigned to Molecular Probes, Inc. for research use only. This product is subject to an agreement between Molecular Probes, Inc. and eBioscience, and the manufacture, use, sale or import of this product may be subject to one or more U.S. patents, pending applications and corresponding foreign equivalents, owned by Molecular Probes, Inc. (a wholly owned subsidiary of Invitrogen Corp). The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product for life science research or as an ASR. The buyer cannot use this product for manufacturing or for any other screening (specifically including use in combination with microarrays or High Content Screening) or testing purpose, other than as an ASR. For information on purchasing a license to this product for purposes other than life science research or use as an ASR, contact Molecular Probes, Inc.

Not for further distribution without written consent.

Copyright © 2000-2010 eBioscience, Inc.

Tel: 888.999.1371 or 858.642.2058 • Fax: 858.642.2046 • www.eBioscience.com • info@eBioscience.com