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## Anti-Mouse CD11c eFluor<sup>®</sup> 650NC (for IHC/ICC)

**Catalog Number:** IH95-0114

**Also known as:** Integrin alpha X, Integrin αX, ITGAX, p150/95, leu M5 alpha

**RUO: For Research Use Only. Not for use in diagnostic procedures.**

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### Product Information

**Contents:** Anti-Mouse CD11c eFluor<sup>®</sup> 650NC (for IHC/ICC)

 **Catalog Number:** IH95-0114

**Clone:** N418

**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.

**Batch Code:** Refer to vial

**Use By:** Refer to vial



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### Description

The N418 monoclonal antibody reacts with mouse CD11c, the integrin alpha X. CD11c non-covalently associates with beta 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 immunohistochemical staining of frozen tissue sections (IHC-F) and immunocytochemistry (ICC).

### Applications Tested

This RA3-6B2 antibody has been tested by immunohistology of frozen mouse spleen using the IHC/ICC Blocking Buffer - Low Protein (cat. 00-4953). This antibody can be used at 1:100.

### For answers to additional questions refer to for IHC/ICC protocols and eFluor Nanocrystal Frequently Asked Questions

**Applications:** This product has been optimized for use in immunohistochemistry and Immunocytochemistry. We do not recommend its use in flow cytometry. Please refer to cat. 95-0114 as a suitable flow product.

**Filter Recommendation:** When using this eFluor<sup>®</sup> 650NC antibody conjugate, we recommend a filter that will capture the 650 emission wavelength. A standard Alexa Fluor<sup>®</sup> 647 filter is acceptable, although other filters that narrow the emission would be more suitable when complexing with additional eFluor<sup>®</sup> nanocrystal conjugates. Please refer to Technical Support FAQ for more information.

**Buffer Recommendation:** We recommend the use of TBS-based solutions when performing IHC/ICC with eFluor<sup>®</sup> NC conjugated antibodies. We offer several products: IHC /ICC Blocking Buffer - Low Protein (cat. 00-4953), and IHC /ICC Blocking Buffer – High Protein (cat. 00-4952) which is optimal when staining FFPE sections or when using eFluor<sup>®</sup> nanocrystal conjugates to nuclear targets.

**Mounting Recommendation:** For optimal results, we recommend the use of Fluoromount-G<sup>™</sup> (cat. 00-4958) when mounting slides.

### References

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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)

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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.

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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

00-4953 IHC /ICC Blocking Buffer - Low Protein

00-4958 Fluoromount-G™

### Legal

Under patent number: US 7,939,170 and additional pending patent application(s)

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