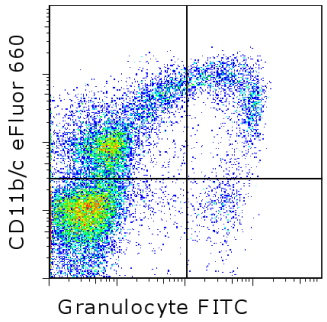
Anti-Rat CD11b/c eFluor® 660

Catalog Number: 50-0110
Also known as: C3bi, Mac-1, Integrin alpha M, CR4
RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of rat splenocytes with Anti-Rat Granulocyte Marker FITC (cat. 11-0570) and 0.06 ug of Anti-Rat CD11b/c eFluor® 660. Total viable cells were used for analysis.

Product Information

Contents: Anti-Rat CD11b/c eFluor® 660
REF **Catalog Number:** 50-0110
Clone: OX42
Concentration: 0.2 mg/mL
Host/Isotype: Mouse IgG2a, kappa

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
Contains sodium azide

Description

This OX42 monoclonal antibody reacts with rat CD11b and CD11c. CD11b, also known as integrin alpha M or Mac-1, is a component of complement receptor 3 (CR3). CD11c, also known as integrin alpha X, is a component of complement receptor 4 (CR4). CD11b and CD11c are expressed on immune cells such as macrophages, monocytes, granulocytes, and dendritic cells. OX42 has also been shown to detect microglia in the brain, as well as cells of the liver and epidermis.

The OX42 antibody has been reported to inhibit complement-mediated rosette formation by granulocytes and macrophages. Moreover, studies demonstrate that OX42 can inhibit granulocyte aggregation.

Applications Reported

This OX42 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This OX42 antibody has been tested by flow cytometric analysis of rat splenocytes. This can be used at less than or equal to 0.125 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.

eFluor® 660 is a replacement for Alexa Fluor® 647. eFluor® 660 emits at 659 nm and is excited with the red laser (633 nm). Please make sure that your instrument is capable of detecting this fluorochome.

References

He J, Yin Y, Luster TA, Watkins L, Thorpe PE. Antiphosphatidylserine antibody combined with irradiation damages tumor blood vessels and induces tumor immunity in a rat model of glioblastoma. Clin Cancer Res. 2009 Nov 15;15(22):6871-80. (**OX42**, IHC-fr)

Turnbull EL, Yrlid U, Jenkins CD, Macpherson GG. Intestinal dendritic cell subsets: differential effects of systemic

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TLR4 stimulation on migratory fate and activation in vivo. J Immunol. 2005 Feb 1;174(3):1374-84. (**OX42**, IHC)

Draskovic-Pavlovic B, Van Der Laan LJ, Pejnovic N, Dijkstra CD, Colic M. Differential effects of anti-rat CD11b monoclonal antibodies on granulocyte adhesiveness. mmunology. 1999 Jan;96(1):83-9. (**OX42**, FA)

Robinson AP, White TM, Mason DW. Macrophage heterogeneity in the rat as delineated by two monoclonal antibodies MRC OX-41 and MRC OX-42, the latter recognizing complement receptor type 3. Immunology. 1986 Feb;57(2):239-47. (**OX42**, FC, IHC-fr, FA)

Related Products
00-4222 Flow Cytometry Staining Buffer
11-0570 Anti-Rat Granulocyte Marker FITC (HIS48)
12-0030 Anti-Rat CD3 PE (eBioG4.18 (G4.18))

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