

Product Data Sheet

Biotin anti-rat CD11b/c

Catalog # / Size: 201803 / 100 µg

Clone: OX-42

Isotype: Mouse IgG2a, κ

Immunogen: Rat peritoneal macrophages

Reactivity: Rat

Preparation: The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions. The solution is free of unconjugated biotin.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.5% BSA (origin USA).

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C. **Do not freeze.**

Applications:

Applications: FC - Quality tested

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤0.25 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: Additional reported applications (for the relevant formats) include: immunohistochemistry of acetone-fixed frozen sections^{1,2}, immunoprecipitation³, *in vivo* and *in vitro* blocking of C3bi binding^{3,4}.

Application References:

1. Whiteland JL, *et al.* 1995. *J. Histochem. Cytochem.* 43:313. (IHC)
2. Milligan CE, *et al.* 1991. *J. Comp. Neurol.* 314:125. (IHC)
3. Robinson AP, *et al.* 1986. *Immunology* 57:239. (Block)
4. Issekutz SE, *et al.* 1992. *Immunology* 76:655. (Block)
5. Muehlbauer SM, *et al.* Am. J Pathol. 177:735. (FC) PubMed

Description: The OX-42 antibody reacts with the CR3 complement (C3bi) receptor expressed on monocytes, granulocytes, macrophages, dendritic cells, NK cells, and a subset of lymphocytes. This antibody appears to recognize a common epitope shared between CD11b and CD11c (integrin α_M and α_X chains). The OX-42 antibody precipitates three polypeptides with apparent molecular weights of 160, 103, and 95 kD, respectively. This antibody has been shown to block the formation of complement-mediated rosettes and leukocyte migration.

Antigen References:

1. Robinson AP, *et al.* 1986. *Immunology* 57:239.
2. Barcaly AN. 1981 *Immunology* 42:593.

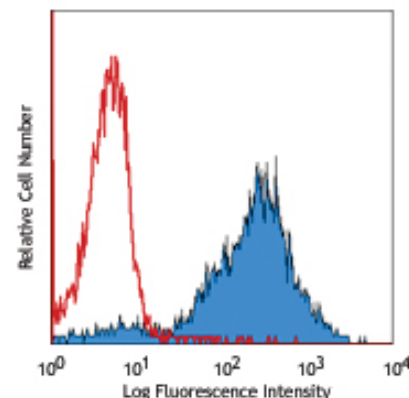
Related Products:

Product
 Biotin Mouse IgG2a, κ Isotype Ctrl
 APC Streptavidin
 HRP Streptavidin
 PE Streptavidin
 PE/Cy5 Streptavidin
 Cell Staining Buffer

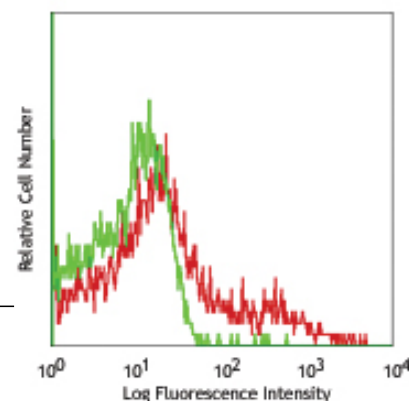
Clone
 MOPC-173

Application

FC, ICFC
 FC, ICFC
 ELISA, ELISPOT, IHC, WB
 FC, ICFC
 FC, ICFC
 FC, ICC, ICFC



LLOU rat bone marrow cells stained with biotinylated OX-42, followed by Sav-PE (gated on myeloid cells)



LOU rat splenocytes stained with biotinylated OX-42, followed by Sav-PE



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