

PN IM3067 Monoclonal Antibody RAT CD11b

Form	Unconjugated	Clone	OX-42
Quantity	0.25 mg	Isotype	IgG2a
Presentation	Liquid 0.25 mL	Species	mouse
Purity	Purified IgG		

For Research Use Only. Not For Use In Diagnostic Procedures.

SPECIFICITY

The OX-42 antibody reacts with the alpha chain (CD11b, also called MAC-1 and CR3 complement receptor) of rat CD11b/CD18 molecule (1, 2). It stains most macro-phages, dendritic cells, granulocytes and cells with the morphology of microglia in brain (3, 4).

APPLICATIONS

This antibody can be used for flow cytometry and on frozen and paraffin sections.

It immunoprecipitates three polypeptides with molecular weight of 160,000, 103,000 and 95,000 (3). It can be used to block adhesive functions (1, 2).

BUFFER

This antibody is supplied in phosphate-buffered saline (PBS) pH 7.2, containing 0.1% sodium azide (NaN₃).

STORAGE CONDITIONS AND STABILITY

This reagent is stable up to the expiration date when stored at 2 - 8°C. Avoid repeated freezing and thawing. Minimize exposure to light and warmth.

REAGENT PREPARATION

No reconstitution is necessary. This monoclonal antibody may be used directly from the vial. Bring reagent to 20 - 25°C prior to use.

PROCEDURE

Flow Cytometry: Suggested working dilution 1:50 - 1:100.

Use 10 µL of the suggested working dilution to label 10⁶ cells.

It is recommended that the users titrate the reagent for use in their own system, using appropriate negative / positive controls.

STATEMENT OF WARNINGS

1. This reagent contains 0.1% sodium azide. Sodium azide under acid conditions yields hydrazoic acid, an extremely toxic compound. Azide compounds should be flushed with running water while being discarded. These precautions are recommended to avoid deposits in metal piping in which explosive conditions can develop. If skin or eye contact occurs, wash excessively with water.

2. Never pipet by mouth.
3. Do not use antibody beyond the expiration date on the label.
4. Do not expose reagents to strong light during storage or incubation.
5. Avoid microbial contamination of reagents or incorrect results might occur.

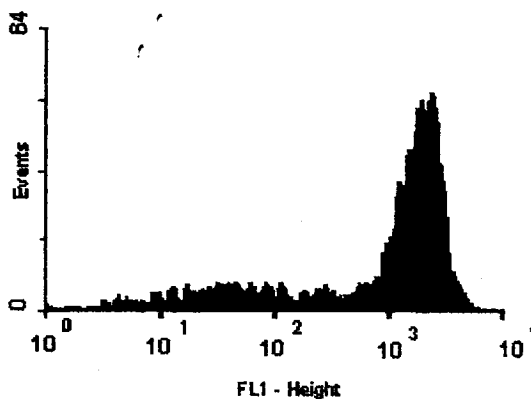
OTHER CONJUGATES AVAILABLE

CD11b-FITC (IM3068)

CD11b-PE (IM3069)

EXAMPLE DATA

The graph below shows representative results of staining obtained with this antibody on rat peritoneal macrophages.



SELECTED RESEARCH REFERENCES

1. [4379] Issekutz, A.C., Issekutz, T.B., "The contribution of LFA-1 (CD11a/CD18) and MAC-1 (CD11b/CD18) to the in vivo migration of polymorphonuclear leucocytes to inflammatory reactions in the rat", 1992, Immunology, 76, 655-661.
2. [4422] Issekutz, A.C., Issekutz, T.B., "Monocyte migration to arthritis in the rat utilizes both CD11/CD18 and very late activation antigen 4 integrin mechanisms", 1995, J. Exp. Med., 181, 1197-1203.

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3. [4382] Robinson, A.P., White, T.M., Mason, D.W., "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", 1986, Immunology, 57, 239-247.
4. [4416] Milligan, C.E., Cunningham, T.J., Levitt, P., "Differential immunochemical markers reveal the normal distribution of brain macrophages and microglia in the developing rat brain", 1991, J. Comp. Neurol., 314, 125-135.