

## MOUSE ANTI-RAT CD11B MONOCLONAL ANTIBODY

**CATALOG NUMBER:** CBL1512

**QUANTITY:** 500 µg

**LOT NUMBER:**

**CONCENTRATION:** 0.5 mg/mL

**ALTERNATE NAMES:** CD11b

**CLONE NAME:** OX-42

**HOST/ISOTYPE:** Ms IgG2a

**SPECIFICITY:**

This antibody recognizes most macrophages (including resident peritoneal and activated macrophages), kupffer cells, but only about 35% of alveolar macrophages. The antibody also labels dendritic cells extensively, granulocytes and cells with the morphology of microglia in brain. The antibody precipitates three polypeptides of 150, 103 and 95 KDa. The antibody inhibits complement mediated rosettes and is probably the rat equivalent of the human receptor for IC3b called CR3. FUSION PARTNER: NSO myeloma cell line.

**APPLICATIONS:**

Flow cytometry  
Immunohistochemical studies of rat fresh frozen tissue sections and paraffin-embedded tissue sections following either periodate-lysine-paraformaldehyde (PLP) fixation, or acetone. Works on very lightly PFA fixed, frozen tissues. (perfusion only 4% PFA 10-15' no post-fix).  
Immunoprecipitation: use rabbit anti-mouse or anti-mouse IgG bead for capture only. The use of protein A or protein G is not recommended.  
Optimal working dilutions must be determined by the end user.

**SPECIES REACTIVITY:** Reacts with Rat. Reactivity with other species has not been determined.

**IMMUNOGEN:** Rat peritoneal macrophages

**FORMAT:** Protein G affinity chromatography

**PRESENTATION:** The monoclonal is presented in phosphate buffered saline containing 10mM sodium azide. We recommend that each laboratory determine an optimum working titre for use in its particular application.

**STORAGE/HANDLING:** For use within 1 month of purchase store at +4°C, for long term storage aliquot antibody into small volumes and store at -20°C for up to one year.

**REFERENCES:**

Whiteland, J.L. et al. (1995). Immunohistochemical detection of T-cell subsets and other leukocytes in paraffin-embedded rat and mouse tissues with monoclonal

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Milligan C.E. et al. (1991). Differential immunochemical markers reveal the normal distribution of brain macrophages and microglia in the developing rat brain. J Comparative Neurol. 314:125-135.

Robinson A.P. et al. (1986). 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. Immunol. 57:239-247.

Barclay A.N. (1981). The localization of populations of lymphocytes defined by monoclonal antibodies in rat lymphoid tissues. Immunol. 42:593-600.

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