

---

**Alexa Fluor® 488 anti-rat CD11b/c**

**Catalog # / Size:** 1609060 / 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 Alexa Fluor® 488 under optimal conditions.  
**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.  
**Concentration:** 0.5

**Applications:**

**Applications:** Immunofluorescence

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

\* Alexa Fluor® 488 has a maximum emission of 519 nm when it is excited at 488 nm.

**Application Notes:** Additional reported applications (for the relevant formats) include: immunohistochemistry of acetone-fixed frozen sections<sup>1,2</sup>, immunoprecipitation<sup>3</sup>, *in vivo* and *in vitro* blocking of C3bi binding<sup>3,4</sup>.

**Application References:**

- Whiteland JL, *et al.* 1995. *J. Histochem. Cytochem.* 43:313. (IHC)
- Milligan CE, *et al.* 1991. *J. Comp. Neurol.* 314:125. (IHC)
- Robinson AP, *et al.* 1986. *Immunology* 57:239. (Block)
- Issekutz SE, *et al.* 1992. *Immunology* 76:655. (Block)
- Muehlbauer SM, *et al.* Am. J Pathol. 177:735. (FC) [PubMed](#)
- Thomas RA. *et al.* 2009. *J Pharmacol Toxicol Methods.* 60:263. [PubMed](#)
- Takeda Y, *et al.* 2011. *Immunobiology.* 216:1094. [PubMed](#)
- Furuhashi K, *et al.* 2013. *J Am Soc Nephrol.* [PubMed](#)
- Cheng HY, *et al.* 2013. *Cytotherapy.* 1465:608. [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<sub>M</sub> and α<sub>X</sub> 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:**

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