

**Alexa Fluor® 700 anti-human CD11b**

**Catalog # /** 2106775 / 25 tests  
**Size:** 2106780 / 100 tests

**Clone:** ICRF44

**Isotype:** Mouse IgG1,  $\kappa$

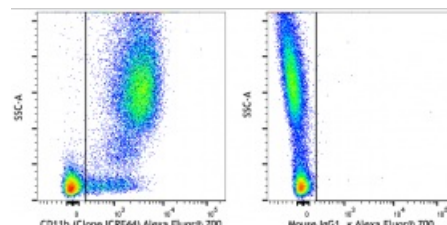
**Reactivity:** Human, Non-human primate, Other

**Preparation:** The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 700 under optimal conditions. The solution is free of unconjugated Alexa Fluor® 700.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

**Workshop Number:** IV M047

**Concentration:** Lot-specific



Human peripheral blood lymphocytes, monocytes, and granulocytes were stained with CD11b (clone ICRF44) Alexa Fluor® 700 (left) or mouse IgG1,  $\kappa$  Alexa Fluor® 700 isotype control (right).

**Applications:**

**Applications:** Flow Cytometry

**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 5  $\mu$ l per million cells or 5  $\mu$ l per 100  $\mu$ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

\* Alexa Fluor® 700 has a maximum emission of 719 nm when it is excited at 633 nm / 635 nm. Prior to using Alexa Fluor® 700 conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.

**Application Notes:** The ICRF44 antibody inhibits heterotypic adhesion of granulocytes in response to fMLP. Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen tissue sections, immunofluorescence microscopy<sup>5</sup>, stimulation of monocytes<sup>3</sup>, blocking of heterotypic PMN aggregation<sup>8</sup>, and blocking of granulocyte activation<sup>12</sup>. This clone was tested in-house and does not work on formalin fixed paraffin-embedded (FFPE) tissue.

**Application References:** 1. Stewart M, *et al.* 1995. *Curr. Opin. Cell Biol.* 7:690.

**Description:** CD11b is a 165-170 kD type I transmembrane glycoprotein also known as  $\alpha_M$  integrin, Mac-1, CR3, and C3bR. CD11b non-covalently associates with integrin  $\beta_2$  (CD18) and is expressed on granulocytes, monocytes/macrophages, dendritic cells, NK cells, and subsets of T and B cells. CD11b/CD18 is critical for the transendothelial migration of monocytes and neutrophils. It is also involved in granulocyte adhesion, phagocytosis, and neutrophil activation. CD11b/CD18 interacts with ICAM-1 (CD54), ICAM-2 (CD102), ICAM-4, CD14, CD23, heparin, iC3b, fibrinogen, and factor X.

**Antigen** 1. Stewart M, *et al.* 1995. *Curr. Opin. Cell Biol.* 7:690.  
**References:**