

**Alexa Fluor® 647 anti-human CD68**

**Catalog # / Size:** 2269095 / 25 tests  
2269100 / 100 tests

**Clone:** Y1/82A

**Isotype:** Mouse IgG2b, κ

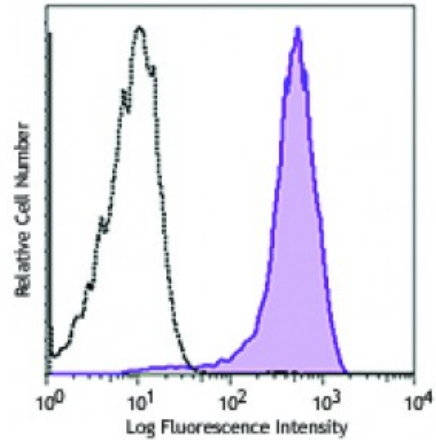
**Reactivity:** Human

**Preparation:** The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 647 under optimal conditions.

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

**Workshop Number:** VI MR23

**Concentration:** 0.2



Human peripheral blood mononuclear cells were fixed and permeabilized with BioLegend's Fixation Buffer and Intracellular Staining Permeabilization Wash Buffer (10X). The cells were then stained with anti-human CD68 (clone Y1/82A) Alexa Fluor® 647.

**Applications:**

**Applications:** Flow Cytometry

**Recommended Usage:** Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

\* Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633 nm / 635 nm.

**Application Notes:** Additional reported application: immunohistochemical staining of frozen tissue sections. This clone was tested in-house and does not work on formalin fixed paraffin-embedded (FFPE) tissue.

**Application References:** 1. Doussis IA, *et al.* 1993. *J. Clin. Pathol.* 46:334.  
2. Davey FR, *et al.* 1988. *J. Clin. Pathol.* 41:753.

**Description:** CD68 is a 110 kD glycoprotein, also known as macrosialin, belonging to the sialomucin family. It is closely related to the family of acidic, highly glycosylated lysosomal-associated membrane proteins (LAMPs). CD68 is predominately expressed in cytoplasmic granules of monocytes/macrophages, dendritic cells, and granulocytes. It is one of the useful myeloid cell markers. Further studies have shown that CD68 is also expressed by a subset of hematopoietic progenitors, γδ T cells, NK cells, LAK cells, subset of B cells, fibroblasts, and endothelial cells. The biological function of CD68 is still unknown.

**Antigen References:** 1. Holness CL and Simmons DL. 1993. *Blood* 81:1607.  
2. Gottfried E, *et al.* 2008. *Scand. J. Immunol.* 67:453.

3. Hameed A, *et al.* 1994. *Hum. Pathol.* 25:872.