

APC/Fire™ 750 anti-human CD68

Catalog # / Size: 2269115 / 25 tests
2269120 / 100 tests

Clone: Y1/82A

Isotype: Mouse IgG2b, κ

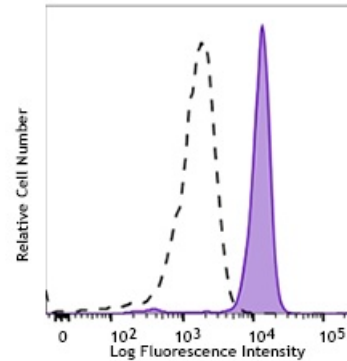
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with APC/Fire™ 750 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: Lot-specific



Human peripheral blood mononuclear cells were fixed and permeabilized with fixation buffer and Intracellular Staining Permeabilization Wash Buffer (10X). The cells were then stained with anti-human CD68 (clone Y1/82A) APC/Fire™ 750 (filled histogram), or mouse IgG2b, κ APC/Fire™ 750 isotype control (open histogram). Data shown was gated on the monocyte population.

Applications:

Applications: Intracellular Staining for 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 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood.

* APC/Fire™ 750 has a maximum excitation of 650 nm and a maximum emission of 787 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.
 3. Bushway ME, *et al.* 2014. *Biol Reprod.* 90(5): 110. (IF) [PubMed](#)

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, γ/δ 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.