

Alexa Fluor® 488 anti-human CD68

Catalog # / Size: 333811 / 25 tests
333812 / 100 tests

Clone: Y1/82A

Isotype: Mouse IgG2b, κ

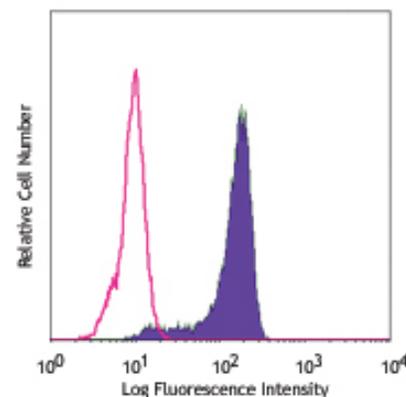
Workshop Number: VI MR23

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 488 under optimal conditions. The solution is free of unconjugated Alexa Fluor® 488.

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

Storage: The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



Human peripheral blood monocytes intracellularly stained with Y1/82A Alexa Fluor® 488

Applications:

Applications: ICFC - *Quality tested*

Recommended Usage: Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is 5 µl per million cells or 5 µl per 100 µl of whole blood. 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.

** Alexa Fluor® 488 is a registered trademark of Molecular Probes, Inc. Alexa Fluor® 488 dye antibody conjugates are sold under license from Molecular Probes, Inc. for research use only, except for use in combination with microarrays and high content screening, and are covered by pending and issued patents.

Application Notes: Additional reported application: immunohistochemical staining of frozen tissue sections.

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, known as macrophage mannose receptor, which belongs to sialomucin family and is closely related to the family of acidic, highly glycosylated lysosomal-associated membrane proteins (lamps). CD68 is predominantly 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, gamma/delta 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.

Related Products:

| | | |
|--|--------------|--------------------|
| Product | Clone | Application |
| Alexa Fluor® 488 Mouse IgG2b, κ <i>Isotype Ctrl</i> | MPC-11 | FC, ICFC |
| <i>Cell Staining Buffer</i> | | FC, ICC, ICFC |
| <i>RBC Lysis Buffer (10X)</i> | | FC, ICFC |
| <i>Human TruStain FcX™ (Fc Receptor Blocking Solution)</i> | | FC, ICC, ICFC |



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