

Purified anti-human CD68

Catalog # / Size: 333801 / 25 µg
333802 / 100 µg

Clone: Y1/82A

Isotype: Mouse IgG2b, κ

Workshop Number: VI MR23

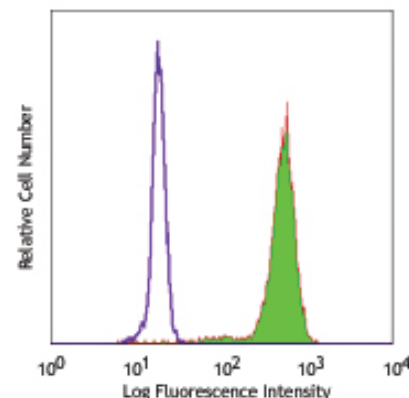
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C.



Human peripheral blood monocytes intracellularly stained with purified Y1/82A, followed by anti-mouse IgG FITC

Applications:

Applications: ICFC - *Quality tested*
IF - *Validated*
IHC - *Reported in the literature*

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 ≤0.125 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

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 marker, belongs to sialomucin family and 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, 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
Purified Mouse IgG2b, κ Isotype Ctrl

Clone

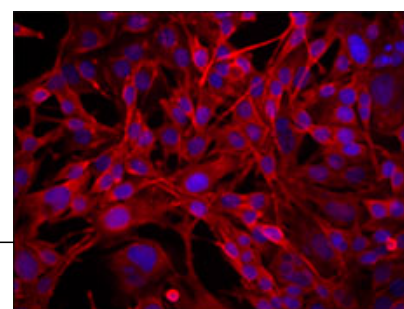
MG2b-57

Application

FC, ICC,
ICFC, IF, IHC,
IP, WB
ICC, ICFC,
IHC
FC, ICC, ICFC
FC, ICFC

Permeabilization Wash Buffer (10X)

Cell Staining Buffer
RBC Lysis Buffer (10X)



MDA-MB-231 breast cancer cells were stained with anti-human CD68 (clone Y1/82A) using 1:100 dilution, followed by DyLight™ 649 anti-mouse Ig secondary antibody (red) plus DAPI staining for nuclei (blue). Cells were fixed with 4% PFA, permeabilized with 0.1% Triton X-100, blocked with 10% serum, and incubated O/N at 4°C. Images were taken under 20x (filter set: EX 647/10x, Dichroic 665LP, EM 700/70x) at exposure 4s. Data provided by John Nolan and Er Liu, La Jolla Bioengineering Institute.



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