



Alexa Fluor® 647 anti-human CD68 Antibody

Catalog# / Size 333819 / 25 tests

333820 / 100 tests

Clone Y1/82A

Regulatory Status RUO

Workshop VI MR23

Other Names Macrosialin

Isotype Mouse IgG2b, κ

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.

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Product Details

Verified Reactivity Human

Antibody Type Monoclonal

Host Species Mouse

Formulation Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)

Preparation The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 647

under optimal conditions.

Concentration Lot-specific (to obtain lot-specific concentration, please enter the lot number in our Concentration

and Expiration Lookup or Certificate of Analysis online tools.)

Storage & Handling The antibody solution should be stored undiluted between 2°C and 8°C, and protected from

prolonged exposure to light. Do not freeze.

Application <u>ICFC - Quality tested</u>

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 μ l staining volume or 5 μ l per 100 μ l of whole blood.

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

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Excitation Laser Red Laser (633 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.

(PubMed link indicates 2. Davey FR, et al. 1988. J. Clin. Pathol. 41:753.

3. Bushway ME, et al. 2014. Biol Reprod. 90(5): 110. (IF) PubMed

Product Citations

BioLegend citation)

1. Zimmerman KA, et al. 2019. Physiol Rep. 7:e13951. PubMed

RRID AB 2571962 (BioLegend Cat. No. 333819)

Antigen Details

Structure Sialomucin family, 110 kD

Distribution Monocytes/macrophages, dendritic cells, granulocytes, subset of hematopoietic progenitors, γ/δ T

cells, NK cells, LAK cells, subset of B cells, fibroblasts, endothelial cells

Cell Type B cells, Dendritic cells, Endothelial cells, Fibroblasts, Granulocytes, Hematopoietic stem and

progenitors, Macrophages, Monocytes, T cells

Biology Area Cell Biology, Immunology, Neuroscience, Neuroscience Cell Markers

Molecular Family CD Molecules

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.

Gene ID 968

Related Protocols

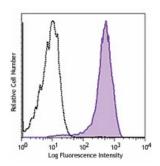
Surface and Intracellular Cytokine Staining for Flow Cytometry - Video

Intracellular Flow Cytometry Staining Protocol

Other Formats

PerCP/Cyanine5.5 anti-human CD68, Purified anti-human CD68, Biotin anti-human CD68, FITC anti-human CD68, PE anti-human CD68, APC anti-human CD68, Alexa Fluor® 488 anti-human CD68, PE/Cyanine7 anti-human CD68, Alexa Fluor® 647 anti-human CD68, APC/Cyanine7 anti-human CD68, APC/Fire™ 750 anti-human CD68, Brilliant Violet 785™ anti-human CD68, Brilliant Violet 421™ anti-human CD68, TotalSeq™-B0234 anti-human CD68

Product Data



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 (filled histogram) or mouse IgG2b, κ Alexa Fluor® 647 isotype control (open histogram). Data shown was gated on the monocyte population.

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