

Brilliant Violet 421™ anti-rat CD68 Recombinant Antibody

Catalog# / Size	201005 / 50 µg
Clone	QA20A71
Regulatory Status	RUO
Other Names	Macrosialin, GP110, LAMP4, Scavenger Receptor D1 (SR-D1)
Isotype	Mouse IgG1, κ
Description	CD68, also known as macrosialin, is a 110 kD integral membrane glycoprotein from the lysosomal-associated membrane protein (LAMP) family. It is predominantly expressed on the intracellular lysosomes of monocytes and macrophages, and is considered a pan-macrophage marker in the rat. CD68 may have functions relating to phagocytic activities of tissue macrophages, both in intracellular lysosomal metabolism and extracellular cell-cell and cell-pathogen interactions.

Product Details

Verified Reactivity	Rat
Reported Reactivity	Bovine
Antibody Type	Recombinant
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 Brilliant Violet 421™ under optimal conditions.
Concentration	0.2 mg/mL
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	ICFC - Quality tested
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 ≤ 0.5 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application. Brilliant Violet 421™ excites at 405 nm and emits at 421 nm. The standard bandpass filter 450/50 nm is recommended for detection. Brilliant Violet 421™ is a trademark of Sirigen Group Ltd. Learn more about Brilliant Violet™. This product is subject to proprietary rights of Sirigen Inc. and is made and sold under license from Sirigen Inc. The purchase of this product conveys to the buyer a non-transferable right to use the purchased product for research purposes only. This product may not be resold or incorporated in any manner into another product for resale. Any use for therapeutics or diagnostics is strictly prohibited. This product is covered by U.S. Patent(s), pending patent applications and foreign equivalents.
Excitation Laser	Violet Laser (405 nm)
Application Notes	Clone QA20A71 can completely block the binding of parental clone to target cells. Both Cyto-Fast™ Fix/Perm Buffer Set and True-Nuclear™ Transcription Factor Buffer Set work well. This clone does not react to human and mouse.

Antigen Details

Structure	Lysosome-associated membrane glycoprotein; single-pass type I membrane protein, 110 kD
Distribution	Macrophages, Langerhans cells, and at low levels on dendritic cells
Function	May involved in cell-cell interaction or cell-ligand interaction
Cell Type	Antigen-presenting cells, Dendritic cells, Langerhans cells, Leukocytes, Macrophages
Biology Area	Cell Biology, Immunology, Innate Immunity, Neuroscience, Neuroscience Cell Markers
Molecular Family	Adhesion Molecules, CD Molecules, Innate Immune Signaling
Antigen References	1. Dijkstra CD, <i>et al.</i> 1985. <i>Immunology</i> . 54:589-99. 2. Damoiseaux JG, <i>et al.</i> 1994. <i>Immunology</i> . 83:140-7.
Gene ID	287435

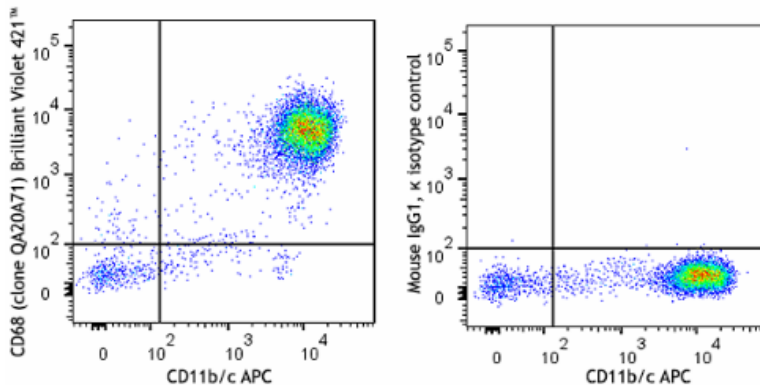
Related Protocols

- [Intracellular Flow Cytometry Staining Protocol](#)

Other Formats

PE anti-rat CD68 Recombinant Antibody, Purified anti-rat CD68 Recombinant Antibody, Brilliant Violet 421™ anti-rat CD68 Recombinant Antibody, Brilliant Violet 605™ anti-rat CD68 Recombinant Antibody

Product Data



Lew/SS rat peritoneal macrophages were surface stained with anti-rat CD11b/c (clone OX-42) APC. Cells were then fixed and permeabilized with Cyto-Fast™ Fix/Perm Buffer (Cat. No. 426803) and intracellularly stained with anti-rat CD68 recombinate (clone QA20A71) Brilliant Violet 421™ (left), or mouse IgG1, κ Brilliant Violet 421™ isotype control (right).

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