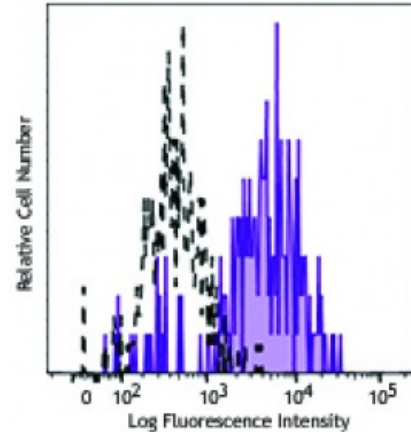


Brilliant Violet 711® anti-human CD115 (CSF-1R)

Catalog # / Size:	2336590 / 100 tests 2336585 / 25 tests
Clone:	9-4D2-1E4
Isotype:	Rat IgG1, κ
Immunogen:	C-fms transduced Kirsten strain murine sarcoma virus transformed NRK cells.
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 711™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 711™ and unconjugated antibody.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).
Workshop Number:	V MA199
Concentration:	Lot-specific



Human peripheral blood monocytes were stained with anti-human CD115 (clone 9-4D2-1E4) Brilliant Violet 711™ (filled histogram) or rat IgG1, κ Brilliant Violet 711™ isotype control (open histogram).

Applications:

- Applications:** Flow Cytometry
- Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤ 5 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Brilliant Violet 711™ excites at 405 nm and emits at 711 nm. The bandpass filter 710/50 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel. Refer to your instrument manual or manufacturer for support. Brilliant Violet 711™ is a trademark of Sirigen Group Ltd.

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Description: CSF-1R, also known as CD115 and M-CSFR, is a single-pass type I membrane protein and member of the platelet-derived growth factor receptor family. Structural studies of CD115 have described an Ig-like extracellular domain, a transmembrane domain, an intracellular juxtamembrane domain, a split tyrosine kinase domain, and a C-terminal tail receptor. Receptor activation induces homodimerization in addition to phosphorylation and ubiquitinylation of

intracellular residues. The natural ligands of CD115 include M-CSF and IL-34. CD115 directly influences tissue macrophage and osteoclast differentiation and proliferation. It is expressed on monocytes/macrophages, plasmacytoid and conventional dendritic cells, and osteoclasts.

Antigen
References:

1. Sherr CJ, *et al.* 1989. *Blood* 73:1786
2. Roussel MF, *et al.* 1991. *Nature* 353:361.
3. Roussel MF, *et al.* 1989 *P. Natl. Acad. Sci. USA* 86:7924.