SONY

Product Data Sheet

Purified anti-human CD115 (CSF-1R)

Catalog # / Size: 2336510 / 100 µg

Clone: 9-4D2-1E4

Isotype: Rat IgG1, κ

Immunogen: C-fms transduced Kirsten strain murine sarcoma virus transformed NRK cells.

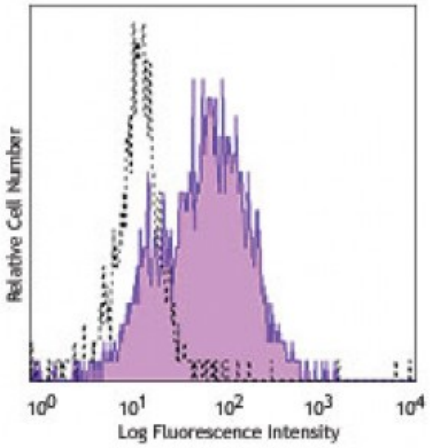
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography.

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

Workshop Number: V MA199

Concentration: 0.5



Human peripheral blood monocytes were stained with purified CD115 (clone 9-4D2-1E4) (filled histogram) or rat IgG1, κ isotype control (open histogram), followed by biotinylated anti-rat IgG and Sav-PE.

Applications:

Applications: Other

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 ≤0.5 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.

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.

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