

PE anti-mouse CD115 (CSF-1R) Antibody

Catalog# / Size	165203 / 25 µg 165204 / 100 µg
Clone	W19330E
Regulatory Status	RUO
Other Names	CSF-1R, M-CSR, c-fms
Isotype	Rat IgG2a, κ
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. This c-fms (Fms proto-oncogene) gene product's natural ligands include M-CSF and IL-34. 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 ubiquitination of intracellular residues. CD115 directly influences tissue macrophage and osteoclast differentiation and proliferation. It is expressed on monocytes/macrophages, peritoneal exudate cells, plasmacytoid and conventional dendritic cells, and osteoclasts.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	Mouse CD115 transfected cells
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Preparation	The antibody was purified by affinity chromatography and conjugated with PE 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	FC - Quality tested
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 ≤ 0.25 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
Application Notes	Clone W19330E does not affect binding of clone W19330C on target cells. Clone W19330E can block clone AFS98 binding on target cells. Clone W19330E can block ligand binding to CSFR-1.
RRID	AB_2910352 (BioLegend Cat. No. 165203) AB_2910352 (BioLegend Cat. No. 165204)

Antigen Details

Structure	Ig superfamily, 145 kD
Distribution	Monocytes/macrophages, peritoneal exudate cells, plasmacytoid and conventional dendritic cells, osteoclasts
Function	Growth factor receptor, tyrosine kinase
Ligand/Receptor	Macrophage colony stimulating factor (M-CSF), IL-34
Cell Type	Dendritic cells, Macrophages, Monocytes, Osteoclasts
Biology Area	Cell Biology, Immunology, Stem Cells
Molecular Family	Cytokine/Chemokine Receptors
Antigen References	1. Guilbert LJ and Stanley ER. 1980. <i>J Cell Bio.</i> 85:153-9. 2. Yeung Y-G, <i>et al.</i> 1978. <i>Proc Natl Acad Sci.</i> 84:1268-71. 3. Sherr CJ, <i>et al.</i> 1985. <i>Cell.</i> 41:665-76.
Gene ID	12978

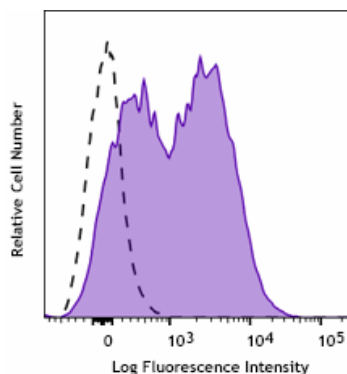
Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-mouse CD115 (CSF-1R), PE anti-mouse CD115 (CSF-1R)

Product Data



Thioglycolate-elicited BALB/c mouse peritoneal macrophages were stained with PE anti-mouse CD115 (clone W19330E) (filled histogram) or rat IgG2a, κ PE isotype control (open histogram).

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