

APC/Cy7 anti-mouse CD115 (CSF-1R)

Catalog # / Size: 1277660 / 100 µg
1277655 / 25 µg

Clone: AFS98

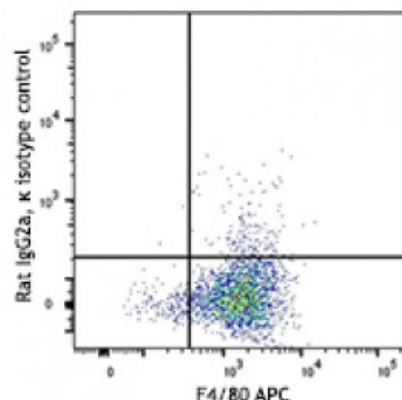
Isotype: Rat IgG2a, κ

Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography and conjugated with APC/Cy7 under optimal conditions. The solution is free of unconjugated APC/Cy7 and unconjugated antibody.

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

Concentration: 0.2

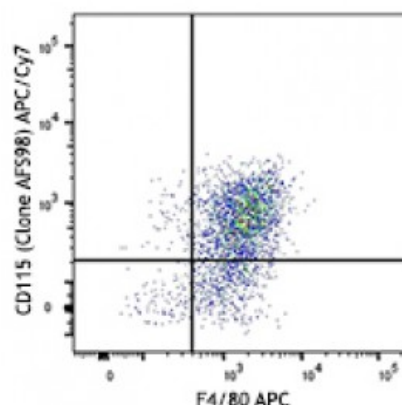


Applications:

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 ≤0.25 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: Additional reported applications (for the relevant formats) include: blocking of ligand binding¹. The LEAF™ purified antibody (Endotoxin <0.1 EU/microg, Azide-Free, 0.2 µm filtered) is recommended for functional assays.



Thioglycolate-elicited BALB/c mouse peritoneal macrophages were stained with F4/80 APC and CD115 (clone AFS98) APC/Cy7 (top) or rat IgG2a, κ APC/Cy7 isotype control (bottom).

Application References:

1. Sudo T, *et al.* 1995. *Oncogene* 11:2469.
2. Murayama T, *et al.* 1999. *Circulation* 99:1740.
3. Jaeger BN, *et al.* 2012. *J. Exp. Med.* 209:565. [PubMed](#)

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.

Antigen 1. Sudo T, *et al.* 1995 *Oncogene* 11:2469.

- References:**
2. Murayama T, *et al.* 1999 *Circulation* 99:1740.
 3. Goswami S, *et al.* 2005 *Cancer Res.* 65:5278.
 4. Yu W, *et al.* 2008 *J. Leuko. Bio*