

# Product Data Sheet

## Purified anti-mouse CD115 (CSF-1R)

**Catalog # / Size:** 135501 / 50 µg  
135502 / 500 µg

**Clone:** AFS98

**Isotype:** Rat IgG2a, κ

**Reactivity:** Mouse

**Preparation:** The antibody was purified by affinity chromatography.

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

**Concentration:** 0.5 mg/ml

**Storage:** The antibody solution should be stored undiluted at 4°C.

## Applications:

**Applications:** FC - Quality tested

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤ 0.25 µg per 10<sup>6</sup> cells in 100 µl 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 binding<sup>1</sup>. The LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays.

**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 References:**

1. Sudo T, *et al.* 1995. *Oncogene* 11:2469.
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. Biol.* 84:852.

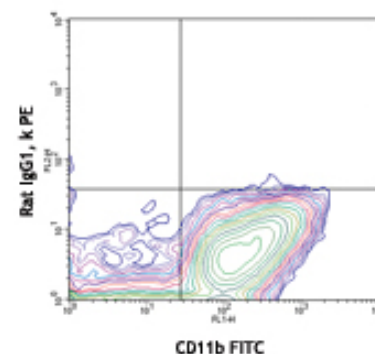
### Related Products:

**Product**  
Purified Rat IgG2a, κ Isotype Ctrl  
Cell Staining Buffer  
RBC Lysis Buffer (10X)

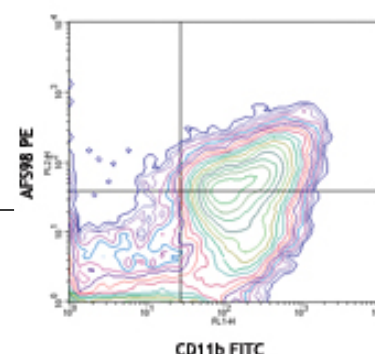
**Clone**  
RTK2758

### Application

FC, ICC, IF, IHC, IP, WB  
FC, ICC, ICFC  
FC, ICFC



Thioglycolate-elicited Balb/c mouse peritoneal macrophages stained with rat IgG1, κ PE and CD11b FITC.



Thioglycolate-elicited Balb/c mouse peritoneal macrophages stained with AFS98 PE and CD11b FITC.



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