

Product Data Sheet

LEAF™ Purified anti-mouse CD115 (CSF-1R)

Catalog # / Size: 135503 / 50 µg
135504 / 500 µg

Clone: AFS98

Isotype: Rat IgG2a, κ

Reactivity: Mouse

Preparation: The LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity chromatography.

Formulation: 0.2 µm filtered in phosphate-buffered solution, pH 7.2, containing no preservative. Endotoxin level is <0.1 EU/µg of the protein (<0.01 ng/µg of the protein) as determined by the LAL test.

Concentration: 1.0 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C. This LEAF™ solution contains no preservative; handle under aseptic conditions.

Applications:

Applications: FC - *Quality tested*
Block - *Reported in the literature*

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 10⁶ cells in 100 µl volume or 100 µl of whole blood. 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/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
4. Gomez-Nicola D, *et al.* 2013. *J Neurosci.* 33:2481. 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
LEAF™ Purified Rat IgG2a, κ Isotype Ctrl

Cell Staining Buffer
RBC Lysis Buffer (10X)

Clone
RTK2758

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



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