

TECHNICAL DATA SHEET

In Vivo Ready™ Anti-Mouse CD115 (c-fms) (AFS98)

Catalog Number: 40-1152

PRODUCT INFORMATION

Contents: In Vivo Ready™ Anti-Mouse CD115 (c-fms) (AFS98)

Isotype: Rat IgG2a, kappa

Concentration: 2 mg/mL

Clone: AFS98

Reactivity: Mouse

Formulation: 10 mM NaH₂PO₄, 150 mM NaCl, pH7.2

Endotoxin Level: Less than or equal to 0.01 EU/ug, as determined by the LaL assay

DESCRIPTION

The AFS98 antibody is specific for mouse CD115, also known as Colony-Stimulating Factor-1 Receptor (CSF-1R), a 145 kDa receptor from the PDGF receptor family. Receptor activation by the ligands IL-34 or CSF-1 (M-CSF) occurs via homodimerization of CD115 and subsequent tyrosine phosphorylation and ubiquitination of intracellular domains. CD115 signaling promotes differentiation of myeloid precursors, as well as the continued regulation of proliferation, survival and function of mononuclear phagocytes, dendritic cells and osteoclasts. While IL-34 and CSF-1 may induce similar cellular responses, they are differentially expressed and as such exert complimentary actions via CD115. The AFS98 antibody may be used for identification of myeloid lineage cells by flow cytometry, and is commonly used for in vivo or in vitro neutralization of CSF-1 Receptor.

PREPARATION & STORAGE

This monoclonal antibody preparation was purified from tissue culture supernatant via affinity chromatography. For In Vivo Ready™ (IVR) products, each preparation is also evaluated for endotoxin levels using the LAL assay. It is recommended to store the product undiluted at 4°C. Do not freeze.

APPLICATION NOTES

This purified format is guaranteed to be >90% pure as determined by SDS-PAGE analysis. Citations are provided as a convenience to you - please consult Materials and Methods sections for additional details about the use of any product in these publications.

REFERENCES

Gautier EL, Chow A, Spanbroek R, Marcellin G, Greter M, Jakubzick C, Bogunovic M, Leboeuf M, van Rooijen N, Habenicht AJ, Merad M, and Randolph GJ. 2012. J. Immunol. 189: 2614-2624. (flow cytometry) Nakamichi Y, Mizoguchi T, Arai A, Kobayashi Y, Sato M, Penninger JM, Yasuda H, Kato, S, DeLuca HF, Suda T, Udagawa N, and Takahashi N. Proc. Natl. Acad. Sci. 109: 10006-10011. (in vitro blocking) Okuno Y, Nakamura-Ishizu A, Kishi K, Suda T, and Kubota Y. 2011. Blood. 117: 5264-5272. (in vivo blocking) Fixley FJ, Xiong Y, Yu R Y-L, Sahai EA, Stanley ER, and Ye BH. 2005. J. Cell Sci. 118: 1873-1883. (western blot)

NOTE: Please choose the appropriate format for each application. Citations are provided as a convenience to you; please consult Materials and Methods sections for additional details about the use of any product in these publications.

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