

## Monoclonal Antibody to CD115 - PE

<b>Alternate names:</b>	CSF-1-R, CSF1R, FMS, Fms proto-oncogene, Macrophage colony-stimulating factor 1 receptor, c-fms
<b>Catalog No.:</b>	AM05871RP-T
<b>Quantity:</b>	25 Tests
<b>Background:</b>	CD115, also known as c-fms, macrophage Colony Stimulating Factor Receptor (M-CSFR), or CSF-1R, exists in immature (gp130c-fms) and mature (gp150c-fms) forms. CSF-1R exhibits an intrinsic tyrosine-specific protein kinase activity. It is expressed on the cells of the mononuclear phagocyte lineage. CSF-1R is an integral transmembrane glycoprotein consisting of a 512 amino acid extracellular domain that includes the CSF-1 binding site, a single 25 amino acid membrane-spanning segment, and a 435 amino acid cytoplasmic portion that includes the tyrosine kinase domain. CD115 is expressed by cells of the monocytic lineage and by progenitor cells.
<b>Uniprot ID:</b>	<a href="#">P09581</a>
<b>NCBI:</b>	<a href="#">NP_001032948.2</a>
<b>GeneID:</b>	<a href="#">12978</a>
<b>Host / Isotype:</b>	Rat / IgG1
<b>Clone:</b>	604B5 2E11
<b>Immunogen:</b>	RAW 264 cells.
<b>Format:</b>	<b>State:</b> Lyophilized purified IgG fraction. <b>Purification:</b> Ion Exchange Chromatography. <b>Buffer System:</b> Phosphate buffered saline pH 7.4 containing 0.09% Sodium Azide as preservative and 1% BSA as stabilizer. <b>Label:</b> PE <b>Reconstitution:</b> Restore with 0.25 ml disilled water
<b>Applications:</b>	<b>Flow Cytometry:</b> Use 10 µl of neat antibody to label 10e6 cells in 100 µl. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody recognises the CD115 cell surface antigen, also known as the M-CSF receptor and as c-fms. This antibody has been shown to inhibit in vitro colony formation in response to M-CSF in both Rats and Mice. <b>Species:</b> Mouse and Rat. Other species not tested.

**Storage:**

Prior to and following reconstitution store the antibody undiluted at 2-8°C.

**DO NOT FREEZE!**

This product is photosensitive and should be protected from light.

Shelf life: one year from despatch.

**General Readings:**

1. Shadduck RK, Fischer BC, DePasquale DK, Gilmore GL. Paradoxical stimulation of normal and leukemic rat hematopoiesis by monoclonal antibody to CSF-1 receptor. *Exp Hematol.* 1996 Feb;24(2):314-7. PubMed PMID: 8641359.
2. Gilmore GL, Shadduck RK. Inhibition of day-12 spleen colony-forming units by a monoclonal antibody to the murine macrophage/monocyte colony-stimulating factor receptor. *Blood.* 1995 May 15;85(10):2731-4. PubMed PMID: 7742533.
3. MacDonald KP, Rowe V, Bofinger HM, Thomas R, Sasmono T, Hume DA, et al. The colony-stimulating factor 1 receptor is expressed on dendritic cells during differentiation and regulates their expansion. *J Immunol.* 2005 Aug 1;175(3):1399-405. PubMed PMID: 16034075.

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**For research and in vitro use only. Not for diagnostic or therapeutic work.**

Material Safety Datasheets are available at [www.acris-antibodies.com](http://www.acris-antibodies.com) or on request.

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