

Monoclonal Antibody to CD115 - PE

Alternate names:	CSF-1-R, CSF1R, FMS, Fms proto-oncogene, Macrophage colony-stimulating factor 1 receptor, c-fms
Catalog No.:	AM05871RP-N
Quantity:	100 Tests
Background:	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.
Uniprot ID:	P09581
NCBI:	NP_001032948.2
GeneID:	12978
Host / Isotype:	Rat / IgG1
Clone:	604B5 2E11
Immunogen:	RAW 264 cells. Spleen cells from immunised Sprague Dawley rats were fused with cells of the P3-653 myeloma cell line.
Format:	State: Lyophilized purified IgG fraction. Purification: Ion Exchange Chromatography Buffer Solution: PBS Preservatives: 0.09% Sodium Azide Stabilizers: 1% BSA Label: PE – Phycoerythrin Reconstitution: Restore with 1.0 ml distilled water.
Applications:	Flow Cytometry: 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.
Specificity:	This antibody recognizes the CD115 cell surface antigen, also known as the M-CSF receptor and as c-fms. This antibody has been shown to inhibit <i>in vitro</i> colony formation in response to M-CSF in both rats and mice.
Species Reactivity:	Tested: Mouse and Rat.

For research and in vitro use only. Not for diagnostic or therapeutic work.
Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Antibody Hotline - Technical Questions - Antibody Location Service
Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com

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.

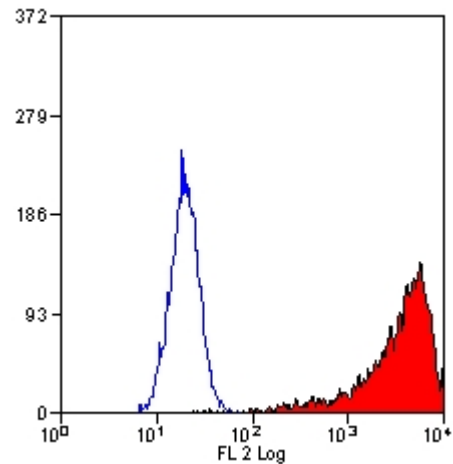
Shelf life: one year from despatch.

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.
4. Buono M, Visigalli I, Bergamasco R, Biffi A, Cosma MP. Sulfatase modifying factor 1-mediated fibroblast growth factor signaling primes hematopoietic multilineage development. *J Exp Med.* 2010 Aug 2;207(8):1647-60. doi: 10.1084/jem.20091022. Epub 2010 Jul 19. PubMed PMID: 20643830.

Pictures:

Flow Cytometry: Staining of the mouse J774 cell line with Rat anti Mouse CD115 antibody RPE conjugated (AM05871RP-N)



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