

CSF1R Monoclonal Antibody (604B5 2E11), PE

Catalog NumberMA5-16531

Product data sheet

Details		Species Reactivity	
Size	100 Tests	Species reactivity	Mouse
Host/Isotope	Rat / IgG1	Tested Applications	
Class	Monoclonal	Flow Cytometry (Flow)	Dilution *
Type	Antibody	Neat	
Clone	604B5 2E11	<div>* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.</div>	
Immunogen	RAW 264 cells		
Conjugate	PE		
Form	Lyophilized		
Concentration	Conc. Not Determined		
Storage Conditions	4° C, store in dark, DO NOT FREEZE!		

Product specific information

Reconstitute with 1 mL of distilled water. After reconstitution, store product undiluted at 4°C in the dark. For FACS analysis, use 10 µL of the suggested working dilution to label 1x10^6 cells in 100 µL. Rat anti Mouse CD115 antibody, clone 604B5 2E11 recognizes the murine CD115 cell surface antigen, also known as the M-CSF receptor and as c-fms.

Background/Target Information

CSF1R (colony stimulating factor 1 receptor) is a cytokine that controls the production, differentiation, and function of macrophages. CSF1R mediates most if not all of the biological effects of CSF1. Ligand binding activates the receptor kinase through a process of oligomerization and transphosphorylation. CSF1R is a tyrosine kinase transmembrane receptor and member of the CSF1/PDGF receptor family of tyrosine-protein kinases. Mutations in the gene encoding CSF1R have been associated with a predisposition to myeloid malignancy. Tyrosine-protein kinase that acts as cell-surface receptor for CSF1 and IL34 and plays an essential role in the regulation of survival, proliferation and differentiation of hematopoietic precursor cells, especially mononuclear phagocytes, such as macrophages and monocytes. Promotes the release of proinflammatory chemokines in response to IL34 and CSF1, and plays an important role in innate immunity and in inflammatory processes. The first intron of the CSF1R gene contains a transcriptionally inactive ribosomal protein L7 processed pseudogene oriented in the opposite direction. Mutations in the CSF1R gene have been associated with a predisposition to myeloid malignancy.

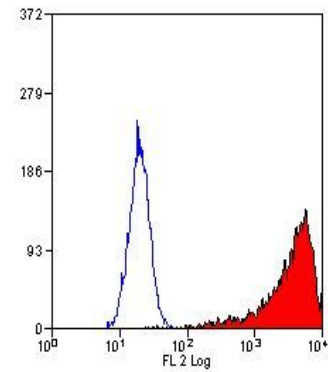
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CSF1R Antibody (MA5-16531) in Flow
Flow cytometric analysis of the mouse J774 cell line with Rat anti Mouse CD115 conjugated to RPE



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