

Rabbit anti-Human CSF1R Polyclonal Antibody | anti-CSF1R antibody

CSF1R Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA284935	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Western Blot, Immunofluorescence

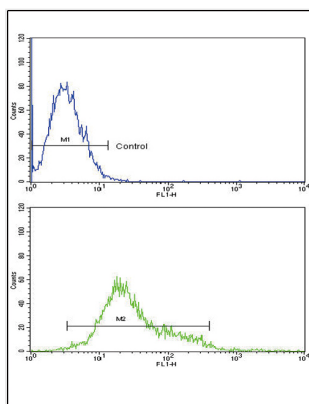
PRODUCT SYNONYMS

CSF1R; Polyclonal Antibody; CSF1R Antibody; Macrophage colony-stimulating factor 1receptor; CSF-1 receptor; CSF-1-R; CSF-1R; M-CSF-R; Proto-oncogene c-Fms; CD115; FMS; anti-CSF1R antibody

PRODUCT SPECIFICATIONS

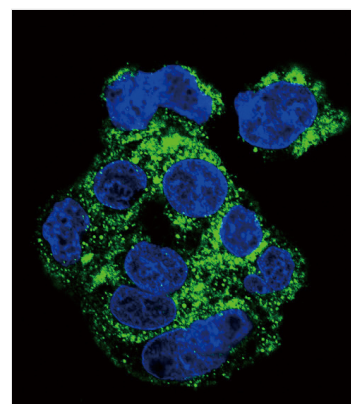
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This CSF1R antibody is generated from rabbits immunized with CSF1R recombinant protein.
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Applicable Applications for anti-CSF1R antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot), IF (Immunofluorescence)
Cellular Location	Cell membrane; Single-pass type Imembrane protein
Tissue Location	Expressed in bone marrow and undifferentiated blood mononuclear cells
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

IMAGES



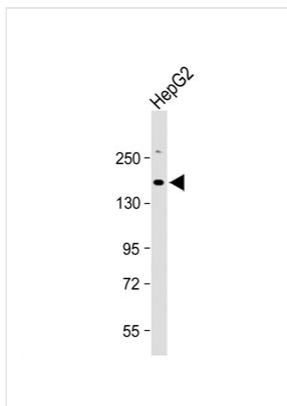
FCM/FACS (Flow Cytometry)

CCSF1R Antibody (Cat. # AAA284935) flowcytometric analysis of k562 cells (bottom histogram) compared to a negative control (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



IF (Immunofluorescence)

Confocal immunofluorescent analysis of CSF1R Antibody (Cat# AAA284935) with HepG2 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).



WB (Western Blot)

Anti-CSF1R Antibody at 1:2000 dilution +HepG2 whole cell lysate Lysates/proteins at 20 ug per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 108 kDa Blocking/Dilution buffer: 5% NFDm/TBST.

ADDITIONAL INFORMATION

Related Product Information for anti-CSF1R antibody

Background:

CSF1R is the receptor for colony stimulating factor 1, a cytokine which controls the production, differentiation, and function of macrophages. This receptor mediates most if not all of the biological effects of this cytokine. Ligand binding activates the receptor kinase through a process of oligomerization and transphosphorylation. The encoded protein is a tyrosine kinase transmembrane receptor and member of the CSF1/PDGF receptor family of tyrosine-protein kinases.

Function:

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 thereby plays an important role in innate immunity and in inflammatory processes. Plays an important role in the regulation of osteoclast proliferation and differentiation, the regulation of bone resorption, and is required for normal bone and tooth development. Required for normal male and female fertility, and for normal development of milk ducts and acinar structures in the mammary gland during pregnancy. Promotes reorganization of the actin cytoskeleton, regulates formation of membrane ruffles, cell adhesion and cell migration, and promotes cancer cell invasion. Activates several signaling pathways in response to ligand binding, including the ERK1/2 and the JNK pathway (PubMed: 20504948, PubMed: 30982609). Phosphorylates PIK3R1, PLCG2, GRB2, SLA2 and CBL. Activation of PLCG2 leads to the production of the cellular signaling molecules diacyl glycerol and inositol 1, 4, 5-trisphosphate, that then lead to the activation of protein kinase C family members, especially PRKCD. Phosphorylation of PIK3R1, the regulatory subunit of phosphatidylinositol 3-kinase, leads to activation of the AKT1 signaling pathway. Activated CSF1R also mediates activation of the MAP kinases MAPK1/ERK2 and/or MAPK3/ERK1, and of the SRC family kinases SRC, FYN and YES1. Activated CSF1R transmits signals both via proteins that directly interact with phosphorylated tyrosine residues in its intracellular domain, or via adapter proteins, such as GRB2. Promotes activation of STAT family members STAT3, STAT5A and/or STAT5B. Promotes tyrosine phosphorylation of SHC1 and INPP5D/SHIP-1. Receptor signaling is down-regulated by protein phosphatases, such as INPP5D/SHIP-1, that dephosphorylate the receptor and its downstream effectors, and by rapid internalization of the activated receptor. In the central nervous system, may play a role in the development of microglia macrophages (PubMed: 30982608).

Product Categories/Family for anti-CSF1R antibody

[Crown Antibodies](#); [Cardiovascular](#); [Immunology](#); [Signal Transduction](#)

References

Guey, L. T., et al., Eur. Urol. 57 (2), 283-292 (2010)
Wooten, E. C., et al., PLoS ONE 5 (1), E8830 (2010)
Hosgood, H. D. III, et al., Respir Med 103 (12), 1866-1870 (2009)

NCBI AND UNIPROT INFORMATION

NCBI GI

[27262659](#)

NCBI GeneID

[1436](#)

NCBI Accession #	NP_005202.2
NCBI GenBank Nucleotide #	NM_005211.3
UniProt Accession #	P07333 ; Q6LDW5 ; Q6LDY4 ; Q86VW7 ; B5A955 ; D3DQG2
NCBI Official Full Name	macrophage colony-stimulating factor 1 receptor
NCBI Official Synonym Full Names	colony stimulating factor 1 receptor
NCBI Official Symbol	CSF1R
NCBI Official Synonym Symbols	FMS; CSFR; FIM2; HDLS; C-FMS; CD115; CSF-1R; M-CSF-R
NCBI Protein Information	macrophage colony-stimulating factor 1 receptor
UniProt Protein Name	Macrophage colony-stimulating factor 1 receptor
UniProt Gene Name	CSF1R
UniProt Synonym Gene Names	FMS; CSF-1-R; CSF-1R; M-CSF-R
UniProt Entry Name	CSF1R_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/csf1r-antibody-flow-cytometry-western-blot-immunofluorescence-elisa/284935>