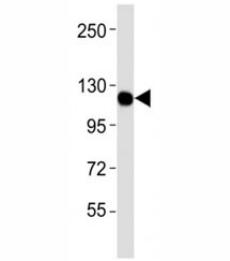
CSF1R Monoclonal Antibody [clone 1486CT328.53.37] (F53226)

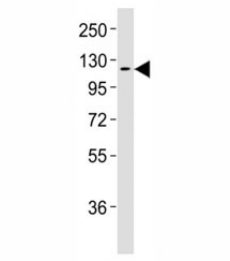
Catalog No.	Formulation	Size
F53226-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F53226-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, k
Clone Name	1486CT328.53.37
Purity	Purified
UniProt	P07333
Applications	Western blot: 1:2000
Limitations	This CSF1R Monoclonal Antibody is available for research use only.



Western blot testing of CSF1R Monoclonal Antibody at 1:4000 dilution + U-87MG lysate; Predicted molecular weight: 106-116 kDa.



Western blot testing of CSF1R Monoclonal Antibody at 1:2000 dilution + human placenta lysate;

Description

CSF1R Monoclonal Antibody detects a 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. Phosphorylates PIK3R1, PLCG2, GRB2, SLA2 and CBL. Activation of PLCG2 leads to the production of the cellular signaling molecules diacylglycerol 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.

See our CSF1R Antibody for additional research into M-CSF receptor signaling, macrophage biology, and myeloid cell function.

Application Notes

Titration of the CSF1R Monoclonal Antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

This CSF1R Monoclonal Antibody was produced from a mouse immunized with a recombinant protein.

Storage

Aliquot the CSF1R Monoclonal Antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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