

Mouse Csf1r Antibody (P909)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP21614a

Specification

Mouse Csf1r Antibody (P909) - Product Information

Application WB,E
Primary Accession P09581
Reactivity Mouse
Host Rabbit
Clonality polyclonal
Isotype Rabbit IgG
Calculated MW 109179

Mouse Csf1r Antibody (P909) - Additional Information

Gene ID 12978

Other Names

Macrophage colony-stimulating factor 1 receptor, CSF-1 receptor, CSF-1-R, CSF-1R, M-CSF-R, Proto-oncogene c-Fms, CD115, Csf1r, Csfmr, Fms

Target/Specificity

This mouse Csf1r antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 910-940 amino acids from mouse Csf1r.

Dilution

WB~~1:2000

E~~Use at an assay dependent concentration.

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.

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.

Precautions

Mouse Csf1r Antibody (P909) is for research use only and not for use in diagnostic or therapeutic procedures.

Mouse Csf1r Antibody (P909) - Protein Information

Name Csf1r

Synonyms Csfmr, Fms



Function Tyrosine-protein kinase that acts as a 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 pro-inflammatory 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 (By similarity). Phosphorylates PIK3R1, PLCG2, GRB2, SLA2 and CBL. Activation of PLCG2 leads to the production of the cellular signaling molecules diacylglycerol and inositol 1,4,5trisphosphate, 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 (By similarity).

Cellular Location

Cell membrane; Single-pass type I membrane protein. Note=The autophosphorylated receptor is ubiquitinated and internalized, leading to its degradation

Tissue Location

Widely expressed..

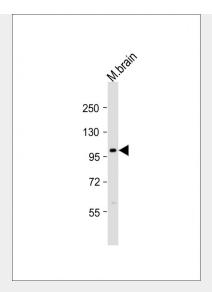
Mouse Csf1r Antibody (P909) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

Mouse Csf1r Antibody (P909) - Images





Anti- Csf1r Antibody (P909)at 1:2000 dilution + mouse brain lysates Lysates/proteins at 20 μ g per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 109 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Mouse Csf1r Antibody (P909) - Background

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Mouse Csf1r Antibody (P909) - References

Rothwell V.M.,et al.Oncogene Res. 1:311-324(1987). Rothwell V.M.,et al.Submitted (SEP-1988) to the EMBL/GenBank/DDBJ databases. de Parseval N.,et al.Nucleic Acids Res. 21:750-750(1993). Carninci P.,et al.Science 309:1559-1563(2005). Yue X.,et al.Mol. Cell. Biol. 13:3191-3201(1993).