

Datasheet for ABIN7177414
anti-M-CSF/CSF1 antibody (AA 33-262)



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1 Image

Overview

Quantity:	100 µg
Target:	M-CSF/CSF1 (CSF1)
Binding Specificity:	AA 33-262
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This M-CSF/CSF1 antibody is un-conjugated
Application:	ELISA, Immunohistochemistry (IHC)

Product Details

Immunogen:	Recombinant Mouse Macrophage colony-stimulating factor 1 protein (33-262AA)
Isotype:	IgG
Cross-Reactivity:	Mouse
Purification:	>95%, Protein G purified

Target Details

Target:	M-CSF/CSF1 (CSF1)
Alternative Name:	Csf1 (CSF1 Products)
Background:	Background: 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

Target Details

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.

Aliases: Csf1 antibody, Csf mMacrophage colony-stimulating factor 1 antibody, CSF-1 antibody, MCSF) [Cleaved into: Processed macrophage colony-stimulating factor 1] antibody

UniProt: [P07141](#)

Pathways: [RTK Signaling](#)

Application Details

Application Notes: Recommended dilution: IHC:1:10-1:100,

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Preservative: 0.03 % Proclin 300

Handling

Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4

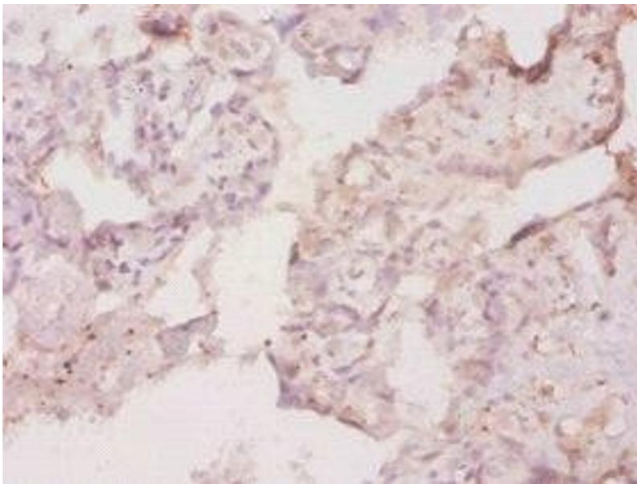
Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C,-80 °C

Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded human placenta tissue using ABIN7177414 at dilution of 1:20