

Datasheet for ABIN4908358

anti-CSF1R antibody**2** Images[Go to Product page](#)

Overview

Quantity:	100 µL
Target:	CSF1R
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CSF1R antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This CSF1R antibody is generated from a mouse immunized with a recombinant protein.
Clone:	6C7
Isotype:	IgG1
Cross-Reactivity:	Human
Purification:	Purified by Protein G.

Target Details

Target:	CSF1R
Alternative Name:	CSF1R (CSF1R Products)
Background:	Synonyms: FMS, CSFR, FIM2, HDLS, C-FMS, CD115, CSF-1R, M-CSF-R, Macrophage colony-

Target Details

stimulating factor 1 receptor, CSF-1 receptor, CSF-1-R, Proto-oncogene c-Fms, CSF1R

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 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.

Gene ID:	1436
UniProt:	P07333
Pathways:	RTK Signaling , Inositol Metabolic Process , Cell-Cell Junction Organization

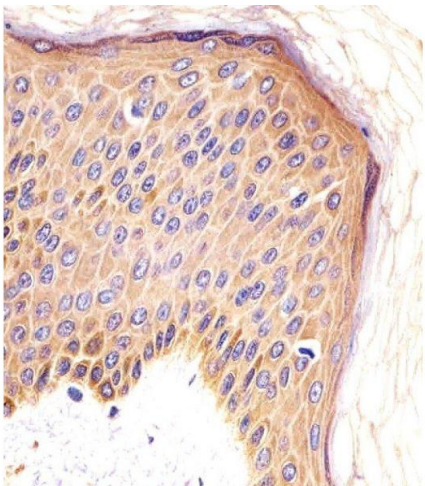
Application Details

Application Notes:	WB 1:300-5000 ELISA 1:500-1000 FCM 1:20-100 IHC-P 1:200-400
Restrictions:	For Research Use only

Handling

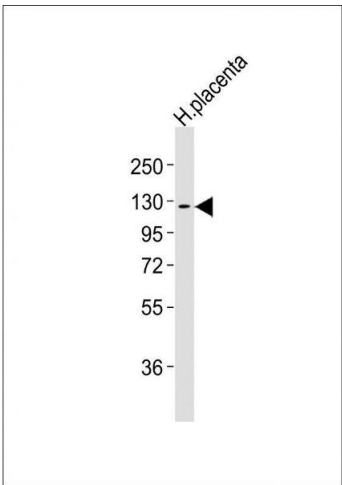
Format:	Liquid
Concentration:	0.5 µg/µL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Images



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Paraformaldehyde-fixed, paraffin embedded human skin tissue, Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min, Block endogenous peroxidase by 3% hydrogen peroxide for 15 minutes, Blocking buffer (3% BSA) at room temperature for 30min, Antibody incubation with CSF1R (1486CT328.53.37) Monoclonal Antibody (bsm-51303M) at 1:25 for 1 hour at 37°C, followed by a conjugated secondary antibody for 20 minutes and DAB staining



Western Blotting

Image 2. Human placenta lysates probed with CSF1R (1486CT328.53.37) Monoclonal Antibody, unconjugated (bsm-51303M) at 1:2000 overnight at 4°C followed by a conjugated secondary antibody for 60 minutes at 37°C.