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Datasheet for ABIN6256810 anti-CSF1R antibody (pTyr809)

2 Images



Overview

Quantity:	100 µL
Target:	CSF1R
Binding Specificity:	pTyr809
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CSF1R antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	A synthesized peptide derived from human MCSF Receptor around the phosphorylation site of Tyr809.
Isotype:	lgG
Specificity:	Phospho-MCSF Receptor (Tyr809) Antibody detects endogenous levels of MCSF Receptor only when phosphorylated at Tyrosine 809.
Predicted Reactivity:	Pig,Zebrafish,Bovine,Horse,Sheep,Rabbit,Dog,Chicken,Xenopus
Purification:	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.

Target Details

Target:

CSF1R

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Target Details	
Alternative Name:	CSF1R (CSF1R Products)
Background:	Description: 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.
	Gene: CSF1R
Molecular Weight:	108kDa
Gene ID:	1436
UniProt:	P07333
Pathways:	RTK Signaling, Inositol Metabolic Process, Cell-Cell Junction Organization
Application Details	
Application Notes:	WB 1:500-1:2000, IF/ICC 1:100-1:500, ELISA(peptide) 1:20000-1:40000

Restrictions:

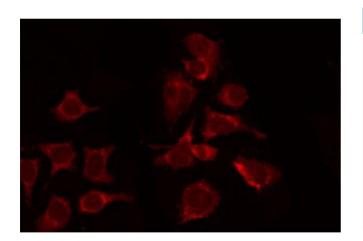
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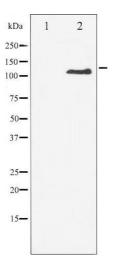
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Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.
Expiry Date:	12 months

Images





Immunofluorescence (fixed cells)

Image 1. ABIN6267328 staining 293 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25°C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

Western Blotting

Image 2. Western blot analysis of M-CSF Receptor phosphorylation expression in LPS treated 293 whole cell lysates,The lane on the left is treated with the antigenspecific peptide.

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