CSF1R Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CSF1R, Polyclonal Antibody
Full Product Name	Phospho-CSF1R (Y708) Antibody
Product Gene Name	anti-CSF1R antibody
Product Synonym Names	CSF1R; FMS; Macrophage colony-stimulating factor 1 receptor; CSF-1 receptor; CSF-1-R; CSF-1R; M-CSF-R; Proto-oncogene c-Fms; CD antigen CD115
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid; In Phosphate Buffered Saline, 50% Glycerol, 0.5% BSA and 0.02% Sodium Azide.
Purity/Purification	Affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
Molecular Weight	107,984 Da
Chromosome Location	Chromosome: 5; NC_000005.9 (149432854..149492935, complement). Location: 5q32
OMIM	164770
3D Structure	ModBase 3D Structure for P07333
Immunogen	Synthesized peptide derived from human c-Fms around the phosphorylation site of Y708.
Immunogen Species	Human
Conjugate	Non-conjugated
Product Categories/Family for anti-CSF1R antibody	Cardiovascular
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CSF1R antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-CSF1R antibody	WB: 1:500-1:2000 ELISA: 1:10000
Related Product Information for anti-CSF1R antibody	MBS7119055 is an antibody targeting CSF1R. Also known as Phospho-CSF1R (Y708) Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-CSF1R antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CSF1R. It may not necessarily be applicable to this product.

NCBI GI #	27262659

NCBI GeneID	1436
NCBI Accession #	NP_005202.2
UniProt Primary Accession #	P07333
UniProt Secondary Accession #	Q6LDW5; Q6LDY4; Q86VW7; D3DQG2
UniProt Related Accession #	P07333
GenBank Nucleotide #	NM_005211.3
NCBI Official Full Name	macrophage colony-stimulating factor 1 receptor
NCBI Official Synonym Full Names	colony stimulating factor 1 receptor
NCBI Official Symbol	CSF1R
NCBI Official Synonym Symbols	FMS; CSFR; FIM2; HDLS; C-FMS; CD115; CSF-1R; M-CSF-R
UniProt Protein Name	Macrophage colony-stimulating factor 1 receptor
UniProt Synonym Protein Names	CSF-1 receptor (EC:2.7.10.1); CSF-1-R; CSF-1R; M-CSF-R; Proto-oncogene c-Fms; CD_antigen: CD115
Protein Family	Macrophage colony-stimulating factor 1 receptor
UniProt Gene Name	CSF1R
UniProt Synonym Gene Names	FMS; CSF-1-R; CSF-1R; M-CSF-R
UniProt Entry Name	CSF1R_HUMAN
NCBI Protein Information	macrophage colony-stimulating factor 1 receptor; CD115 antigen; CSF-1 receptor; FMS proto-oncogene; proto-oncogene c-Fms; macrophage colony stimulating factor I receptor; McDonough feline sarcoma viral (v-fms) oncogene homolog
NCBI Summary for CSF1R	The protein encoded by this gene is the receptor for colony stimulating factor 1, a cytokine which controls the production, differentiation, and function of macrophages. This receptor mediates most if not all of the biological effects of this cytokine. Ligand binding activates the receptor kinase through a process of oligomerization and transphosphorylation. The encoded protein is a tyrosine kinase transmembrane receptor and member of the CSF1/PDGF receptor family of tyrosine-protein kinases. Mutations in this gene have been associated with a predisposition to myeloid malignancy. The first intron of this gene contains a transcriptionally inactive ribosomal protein L7 processed pseudogene oriented in the opposite direction. [provided by RefSeq, Jul 2008]

UniProt Comments for CSF1R	CSFR: an oncogenic tyrosine kinase receptor for CSF-1 (M-CSF). Drives growth and development of monocytes. Binding of CSF-1 induces receptor dimerization, activation and autophosphorylation of cytoplasmic tyrosine residues used as docking sites for SH2-containing signaling proteins. There are at least five major tyrosine autophosphorylation sites. Two point mutations seen in 10-20% of patients with acute myeloid leukemia, chronic myelomonocytic leukemia or myelodysplasia. One mutation appears to be both somatic and germline, and disrupts Cbl binding and receptor turnover. v-fms lacks the Cbl binding site and causes feline leukemia. Mutations may also develop after chemotherapy for lymphoma. A distinct point mutation was found in some cases of hepatocellular carcinoma and related to increased expression, and another mutation was found in 2 of 40 patients with idiopathic myelofibrosis. Expression is elevated in breast tumors and cell lines, and expression in xenografts and transgenic mice has been correlated with xenograft growth and breast cancer development. Inhibitors: Ki-20227 and other Kit/PDGFR inhibitors. Protein type: Protein kinase, TK; Protein kinase, tyrosine (receptor); Oncoprotein; Kinase, protein; EC 2.7.10.1; Membrane protein, integral; TK group; PDGFR family Chromosomal Location of Human Ortholog: 5q32 Cellular Component: cell surface; integral to plasma membrane; plasma membrane; receptor complex Molecular Function: macrophage colony stimulating factor receptor activity; protein homodimerization activity; cytokine binding; protein phosphatase binding; ATP binding Biological Process: regulation of bone resorption; peptidyl-tyrosine phosphorylation; phosphoinositide-mediated signaling; macrophage differentiation; monocyte differentiation; multicellular organismal development; cytokine and chemokine mediated signaling pathway; protein amino acid autophosphorylation; osteoclast differentiation; signal transduction; positive regulation of tyrosine phosphorylation of Stat3 protein; cell proliferation; regulation of cell shape; positive regulation of cell proliferation; ruffle organization and biogenesis; innate immune response; hemopoiesis; phosphatidylinositol metabolic process; positive regulation of protein amino acid phosphorylation; inflammatory response; intercellular junction maintenance; transmembrane receptor protein tyrosine kinase signaling pathway; positive regulation of cell migration Disease: Leukoencephalopathy, Diffuse Hereditary, With Spheroids
Research Articles on CSF1R	**1.** Data indicate that blood treated with EDTA and refrigerated maintained CD115 stability.
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