c-FMS Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	c-Fms, Polyclonal Antibody
Full Product Name	c-Fms Polyclonal Conjugated Antibody
Product Gene Name	anti-c-Fms 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
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Specificity	c-Fms polyclonal antibody detects endogenous levels of c-Fms protein.
Preparation and Storage	Store at 4 degree C for 6 months.
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 non-phosphorylation site of Y561.
Conjugation	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Excitation Emission	AF350: 346nm/442nm
Applications Tested/Suitable for anti-c-Fms antibody	Most Applications
Application Notes for anti-c-Fms antibody	Suggested Dilution: AF350 conjugated: most applications: 1:50-1:250 AF405 conjugated: most applications: 1:50-1:250 AF488 conjugated: most applications: 1:50-1:250 AF555 conjugated: most applications: 1:50-1:250 AF594 conjugated: most applications: 1:50-1:250 AF647 conjugated: most applications: 1:50-1:250 AF680 conjugated: most applications: 1:50-1:250 AF750 conjugated: most applications: 1:50-1:250 Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1:50-1:1000
Related Product Information for anti-c-Fms antibody	MBS9449695 is an antibody targeting c-Fms. Also known as c-Fms Polyclonal Conjugated Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-c-Fms 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 c-Fms. 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 c-Fms	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 c-Fms	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 c-Fms	**1.** Data indicate that blood treated with EDTA and refrigerated maintained CD115 stability.
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