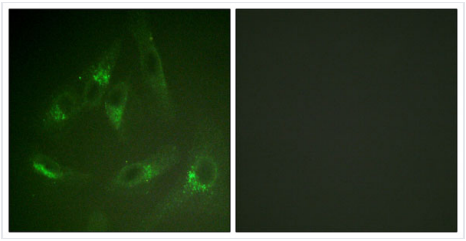
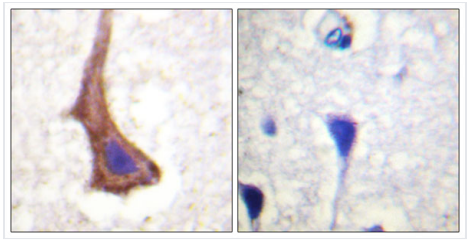
# CSFR Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | CSFR, Polyclonal Antibody |
| **Full Product Name** | CSFR Antibody |
| **Product Gene Name** | anti-CSFR antibody |
| **Product Synonym Gene Name** | CSF1R |
| **Product Synonym Names** | c-fms; CD115; CSF-1-R; CSF1R; CSFMR; FMS; Fms proto-oncogene; kinase CSFR; M-CSFR; Macrophage colony stimulating factor I receptor precursor |
| **Clonality** | Polyclonal |
| **Host** | Rabbit |
| **Species Reactivity** | Human, Mouse, Rat |
| **Form/Format** | Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| **Purity/Purification** | Purified from rabbit antiserum by affinity-chromatography using immunogen. |
| **Concentration** | 1 mg/ml (lot specific) |
| **Specificity** | CSFR Antibody detects endogenous levels of total CSFR protein. |
| **Preparation and Storage** | Stable at -20 degree C for at least 1 year. |
| **Molecular Weight** | 107 kDa |
| **OMIM** | X03663 mRNA |
| **3D Structure** | ModBase 3D Structure for P07333 |
| **Target Modification** | Unmodified/Total |
| **Immunogen** | The antiserum was produced against synthesized peptide derived from human CSFR. |
| **Immunogen Range** | 531-580 |
| **Applications Tested/Suitable for anti-CSFR antibody** | Immunohistochemistry (IHC), Immunofluorescence (IF), ELISA (EIA) |
| **Application Notes for anti-CSFR antibody** | IHC: 1:50~1:100<br>IF: 1:100~1:500<br>ELISA: 1:5000 |
| **Related Product Information for anti-CSFR antibody** | MBS9503833 is an antibody targeting CSFR. Also known as CSFR Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit. |
| **Other Notes** | Small volumes of anti-CSFR 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. |



**Immunofluorescence (IF) of anti-CSFR antibody**
Immunofluorescence analysis of HeLa cells, using CSFR Antibody. The picture on the right is blocked with the synthesized peptide.



**Immunohistochemistry (IHC) of anti-CSFR antibody**
Immunohistochemistry analysis of paraffin-embedded human brain tissue, using CSFR Antibody. The picture on the right is blocked with the synthesized peptide.

## ADDITIONAL DETAILS

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

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| **NCBI GI #** | 569026720 |
| **NCBI GeneID** | 1436 |
| **NCBI Accession #** | NP_001275634.1 |
| **UniProt Primary Accession #** | P07333 |
| **UniProt Secondary Accession #** | Q6LDW5; Q6LDY4; Q86VW7; B5A955; D3DQG2 |
| **UniProt Related Accession #** | P07333 |
| **GenBank Nucleotide #** | NM_001288705.2 |
| **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 |
| **UniProt Gene Name** | CSF1R |
| **UniProt Synonym Gene Names** | FMS; CSF-1-R; CSF-1R; M-CSF-R |
| **NCBI Protein Information** | macrophage colony-stimulating factor 1 receptor |
| **NCBI Summary for CSFR** | 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. Alternative splicing results in multiple transcript variants. Expression of a splice variant from an LTR promoter has been found in Hodgkin lymphoma (HL), HL cell lines and anaplastic large cell lymphoma. [provided by RefSeq, Mar 2017] |

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| **UniProt Comments for CSFR** | 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. |
| **Research Articles on CSFR** | **1.** CSF-1R is a novel therapeutic target. |
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