Datasheet for ABIN4949181

CSF1R Protein (AA 20-511) (Fc Tag)

2 Images

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Overview

Quantity:	100 µg
Target:	CSF1R
Protein Characteristics:	AA 20-511
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CSF1R protein is labelled with Fc Tag.
Application:	Functional Studies (Func)

Product Details

Sequence:	AA 20-511
Characteristics:	This protein carries a human IgG1 Fc tag at the C-terminus. The protein has a calculated MW of 81.8 kDa. As a result of glycosylation, the protein migrates as 100-130 kDa under reducing (R) condition, and 260 kDa under non-reducing (NR) condition (SDS-PAGE).
Purity:	>95 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 0.1 EU per µg by the LAL method.

Target Details

Target:	CSF1R

Target Details

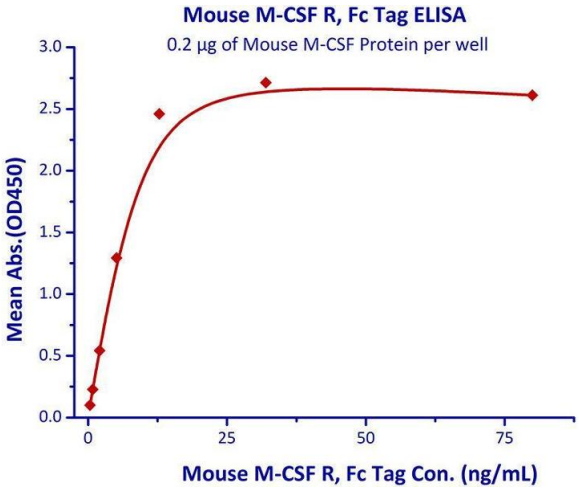
Alternative Name:	M-CSF R (CSF1R Products)
Background:	Colony stimulating factor 1 receptor (CSF1R) is also known as macrophage colony-stimulating factor receptor (M-CSFR), CD115 Cluster of Differentiation 115 (CD115), C-FMS, CSFR, FIM2, FMS, and is a member of the typeIII subfamily of receptor tyrosine kinases (RTKs). CSF1R is a receptor for a cytokine called colony stimulating factor 1, The protein encoded by the CSFR1 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 CSFR1 through a process of oligomerization and transphosphorylation . Mutations in CSF1R are associated with chronic myelomonocytic leukemia and type M4 acute myeloblastic leukemia. Increased levels of CSF1R1 are found in microglia in Alzheimer's disease and after brain injuries. The increased receptor expression causes microglia to become more active. Both CSF1R, and its ligand colony stimulating factor 1 play an important role in the development of the mammary gland and may be involved in the process of mammary gland carcinogenesis.
Molecular Weight:	81.8 kDa
NCBI Accession:	NP_001032948
Pathways:	RTK Signaling, Inositol Metabolic Process, Cell-Cell Junction Organization

Application Details

Restrictions:	For Research Use only

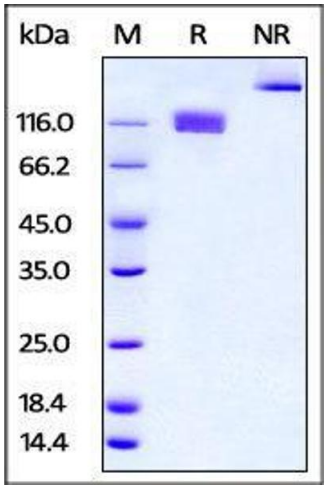
Handling

Format:	Lyophilized
Buffer:	Tris with Glycine, Arginine and NaCl, pH 7.5
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C



Binding Studies

Image 1. Immobilized Mouse M-CSF Protein at 2μg/mL (100 μL/well) can bind Mouse M-CSF R, Fc Tag with a linear range of 0.3-12.8 ng/mL.



SDS-PAGE

Image 2. Mouse M-CSF R, Fc Tag, low endotoxin on SDS-PAGE under reducing (R) and no-reducing (NR) conditions. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.