

Datasheet for ABIN5674611

CSF1R Protein (AA 20-511) (His tag, AVI tag, Biotin)

2 Images



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Quantity:	200 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 His tag,AVI tag,Biotin.

Product Details

Brand:	PrecisionAvi	
Sequence:	AA 20-511	
Specificity:	Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.	
Characteristics:	This protein carries an Avi tag (Avitag™) at the C-terminus, followed by a polyhistidine tag. The protein has a calculated MW of 58.4 kDa. The protein migrates as 78-115 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.	
Purity:	>95 % as determined by SDS-PAGE.	
Endotoxin Level:	Less than 1.0 EU per μg by the LAL method.	

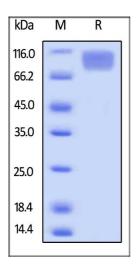
Target Details

Target:	CSF1R ne: M-CSF R (CSF1R Products)		
Alternative Name:			
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:	58.4 kDa		
NCBI Accession:	NP_001032948		
Pathways:	RTK Signaling, Inositol Metabolic Process, Cell-Cell Junction Organization		
Application Details			
Comment:	Ready-to-use AvitagTM biotinylated protein: The product is exclusively produced using the AvitagTM technology. Briefly, a unique 15 amino acid peptide, the Avi tag, is introduced into the recombinant protein during expression vector construction. The single lysine residue in the Avi tag is enzymatically biotinylated by the E. Coli biotin ligase BirA.		
	This single-point enzymatic labeling technique brings many advantages for commonly used binding assays. The biotinylation happens on the lysine residue of Avi tag, and therefore does NOT interfere with the target protein's natural binding activities. In addition, when immobilized on an avidin-coated surface, the protein orientation is uniform because the position of the Avi tag in the protein is precisely controlled.		
Restrictions:	For Research Use only		

Handling

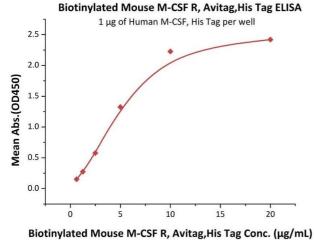
Format:	Lyophilized	
Buffer:	PBS, pH 7.4	
Handling Advice:	Please avoid repeated freeze-thaw cycles.	
Storage:	-20 °C	

Images



SDS-PAGE

Image 1. Biotinylated Mouse M-CSF R, Avitag,His Tag on under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than $95\,\%$.



ELISA

Image 2. Immobilized Human M-CSF, His Tag (ABIN5674639,ABIN6253718) at 10 μ g/mL (100 μ L/well) can bind Biotinylated Mouse M-CSF R, Avitag,His Tag (ABIN5674611,ABIN6253702) with a linear range of 0.625-10 μ g/mL (QC tested).