Active Recombinant Human CSF2RA Homodimer Protein, His&Avi tagged

Cat. No. CSF2RA-34H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CSF2RA dimer protein contains a CSF2RA extracellular domain (UniProt# P15509) fused with a proprietary cis-dimer motif followed by a tandem His-Avi tag at the C-terminus was expressed in HEK293T.
Species	Human
Source	HEK293T
ProteinLength	23-320 aa
Description	Human colony stimulating factor 2 receptor subunit alpha (CSF2RA) is a Type I transmembrane glycoprotein. CSF2RA is also known as granulocyte-macrophage colony-stimulating factor receptor alpha (GMCSFR-alpha), GMRα subunit, and cluster of differentiation 116 (CD116). The CSF2RA extracellular domain contains two fibronectin type III (FN III) domains with a highly conserved WSXWS motif that is present near the C-terminus of the second domain. CSF2RA is expressed on (cell types). CSF2RA is primarily located on neutrophils, eosinophils and monocytes/macrophages and is a receptor for granulocyte-macrophage colony-stimulating factor (GM-CSF). CSF2RA can form a heterodimer with CSF2RB and these heterodimers can form several multimers including a dodecamer. It has been found that CSF2RA specifically has tumor suppression characteristics that have made stimulating CSF2RA expression an emerging strategy in cancer therapy.

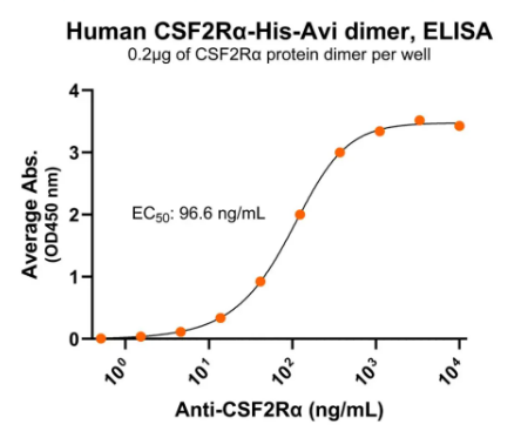
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Molecular Mass	89 kDa
Purity	Greater than 90% dimer form as determined by SDS-PAGE under non-reducing condition
Application	Verified Applications: ELISA for CSF2RA-specific antibody and ELISA and SPR for granulocyte-macrophage colony-stimulating factor (GM-CSF) ligand protein binding assays. Suggested Applications: SPR & BLI for CSF2RA-specific antibody and BLI for GM-CSF protein binding assays. Animal immunization, RUO.
Storage	Store at -80 centigrade.
Storage Buffer	0.22μm filtered PBS, pH 7.4
Shipping	Frozen Dry Ice

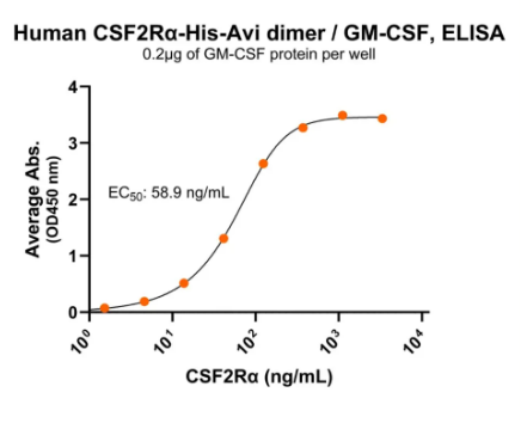
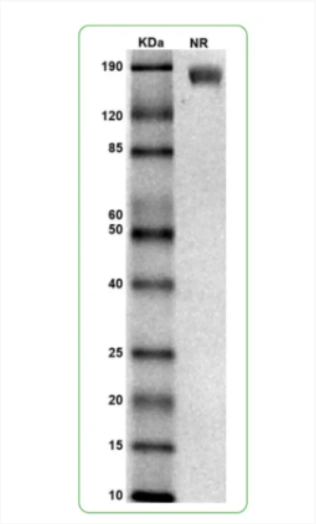
GENE INFORMATION

Gene Name	CSF2RA colony stimulating factor 2 receptor, alpha, low-affinity (granulocyte-macrophage) [Homo sapiens (human)]
Official Symbol	CSF2RA
Synonyms	CSF2RA; colony stimulating factor 2 receptor, alpha, low-affinity (granulocyte-macrophage); CSF2R; granulocyte-macrophage colony-stimulating factor receptor subunit alpha; CD116; GMR-alpha; GMCSFR-alpha; CD116 antigen; GM-CSF receptor alpha subunit; colony stimulating factor 2 receptor alpha subunit; granulocyte-macrophage colony-stimulating factor receptor alpha chain; GMR; SMDP4; CDw116; CSF2RX; CSF2RY; GMCSFR; CSF2RAX; CSF2RAY; MGC3848; MGC4838; GM-CSF-R-alpha;

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Gene ID	1438
mRNA Refseq	NM_001161529
Protein Refseq	NP_001155001
MIM	306250
UniProt ID	P15509
Bioactivity-Antibody Binding	 Immobilized human CSF2Rα protein dimer, His Tag at 2 μg/mL (100 μL/well) can bind anti-human CSF2Rα polyclonal antibody with half maximal effective concentration (EC50) range of 48.3-193.1 ng/mL (QC tested).

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Bioactivity-Ligand Binding	 Immobilized human GM-CSF at 2 μg/mL (100 μL/well) can bind anti-human CSF2Rα protein dimer, His Tag with half maximal effective concentration (EC50) range of 29.5-117.8 ng/mL (QC tested).
SDS-PAGE and WB	 MW: Molecular Weight marker reduced condition NR: CSF2Rα under non-reduced condition

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