

CD131 Recombinant Protein | CSF2RB recombinant protein

CD131 Protein, Human, Recombinant (His Tag)

CATALOG #
AAA257424

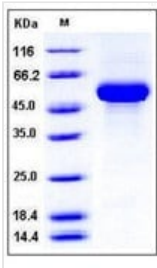
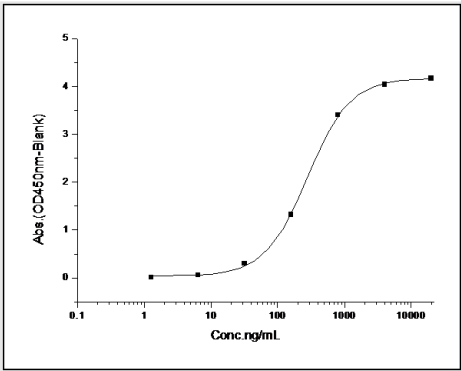
HOST
HEK293 Cells

PRODUCT SYNONYMS

CD131; CD131 Protein; Human; Recombinant (His Tag); Human CD131/CSF2RB/IL3RB/IL5RB Protein (His Tag); colony stimulating factor 2 receptor; beta; low-affinity (granulocyte-macrophage); CDw131 Protein; IL3RB Protein; IL5RB Protein; SMDP5 Protein; CSF2RB recombinant protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>97 % as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH7.4 Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Sequence Positions	438aa
Sequence	Met1-Trp44 3
Species	Human
Tag	C-His
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Trp17
Protein Construction	JA DNA sequence encoding the extracellular domain (Met 1-Trp 443) of human CSF2RB (NP_000386.1) expressed, fused with a polyhistidine-tag at the C-terminus
Activity	Measured by its binding ability in a functional ELISA. Immobilized human CD131 at 10ug/ml (100ul/well) can bind human Fc-GMCSF. The EC50 of human Fc-GMCSF is 250-500ng/ml.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. Shipping: They are shipped out with blue ice pack



Application Data

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Measured by its binding ability in a functional ELISA. Immobilized human CD131 at 10 ug/ml (100 ul/well) can bind human Fc-GMCSF (Cat: 10015-H01H), The EC50 of human Fc-GMCSF (Cat: 10015-H01H) is 250-500 ng/ml.

ADDITIONAL INFORMATION

Related Product Information for CSF2RB recombinant protein	Colony stimulating factor 2 receptor, beta, low-affinity (CSF2RB) also known as CD131 antigen (CD131), cytokine receptor common subunit beta, GM-CSF/IL-3/IL-5 receptor common beta-chain, interleukin 3 receptor/granulocyte-macrophage colony stimulating factor 3 receptor, beta (IL3RB), is the common beta chain of the high affinity receptor for IL-3, IL-5 and CSF. Defects in this protein have been reported to be associated with protein alveolar proteinosis (PAP). CD131 belongs to the type I cytokine receptor family. The cluster of differentiation (cluster of designation) (often abbreviated as CD) is a protocol used for the identification and investigation of cell surface molecules present on white blood cells initially but found in almost any kind of cell of the body, providing targets for immunophenotyping of cells. Defects in CD131/CSF2RB are the cause of pulmonary surfactant metabolism dysfunction type 5 (SMDP5). SMDP5 is a rare lung disorder due to impaired surfactant homeostasis. It is characterized by alveolar filling with floccular material that stains positive using the periodic acid-Schiff method and is derived from surfactant phospholipids and protein components. Excessive lipoproteins accumulation in the alveoli results in severe respiratory distress.
References	Selleri S, et al. (2008) GM-CSF/IL-3/IL-5 receptor common beta chain (CD131) expression as a biomarker of antigen-stimulated CD8+ T cells. J Transl Med. 6:17.Woodcock, et al. (1994) Three residues in the common beta chain of the human GM-CSF, IL-3 and IL-5 receptors are essential for GM-CSF and IL-5 but not IL-3 high affinity binding and interact with Glu21 of GM-CSF. EMBO J. 13(21): 5176-85.Dirksen U, et al. (1997) Human pulmonary alveolar proteinosis associated with a defect in GM-CSF/IL-3/IL-5 receptor common beta chain expression. J Clin Invest. 100(9): 2211-7.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4559408
NCBI GeneID	1439
NCBI Accession #	NP_000386.1
NCBI GenBank Nucleotide #	NM_000395.2
UniProt Accession #	P32927; Q5JZ11; Q6ICE0
Molecular Weight	97,336 Da
NCBI Official Full Name	cytokine receptor common subunit beta
NCBI Official Synonym Full Names	colony stimulating factor 2 receptor, beta, low-affinity (granulocyte-macrophage)
NCBI Official Symbol	CSF2RB
NCBI Official Synonym Symbols	CD131; IL3RB; IL5RB; SMDP5; CDw131

NCBI Protein Information	cytokine receptor common subunit beta; GM-CSF/IL-3/IL-5 receptor common beta-chain; GM-CSF/IL-3/IL-5 receptor common beta subunit; colony-stimulating factor-2 receptor, beta, low-affinity; interleukin 3 receptor/granulocyte-macrophage colony stimulating f
UniProt Protein Name	Cytokine receptor common subunit beta
UniProt Gene Name	CSF2RB
UniProt Synonym Gene Names	IL3RB; IL5RB
UniProt Entry Name	IL3RB_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/csf2rb-recombinant-protein-hek293-cells/257424>