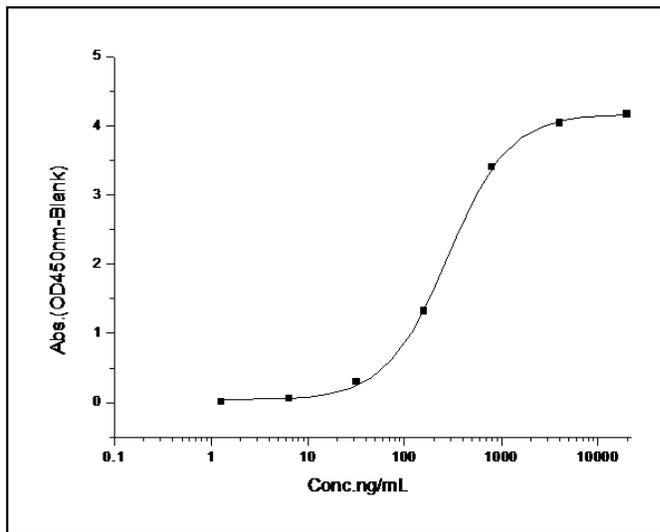


## CSF2RB

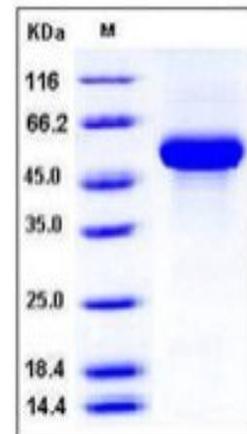
### Recombinant Human CD131 / CSF2 Receptor-beta (His Tag)

<b>Catalog No.</b>	CRH502A-His CRH502B-His	<b>Quantity:</b>	50 µg 100 µg
<b>Alternate Names:</b>	Cytokine receptor common subunit beta, CDw131, GM-CSF/IL-3/IL-5 receptor common beta subunit, CD131		
<b>Description:</b>	Colony stimulating factor 2 receptor, beta (CD131) 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, also a cell surface molecule present on white blood cells and 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.		
<b>UniProt ID:</b>	P32927		
<b>Accession Number:</b>	NP_000386.1		
<b>Protein Construction:</b>	A DNA sequence encoding the extracellular domain (Met 1-Trp 443) of human CSF2RB expressed, fused with a polyhistidine-tag at the C-terminus.		
<b>Source:</b>	HEK293 Cells		
<b>Formulation:</b>	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.		
<b>Molecular Weight:</b>	The recombinant human CSF2RB consists of 438 amino acids and has a predicted molecular mass of 50 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rh CSF2RB is approximately 50-55 kDa.		
<b>Purity:</b>	> 97 % as determined by SDS-PAGE		
<b>Endotoxin Level:</b>	< 1.0 EU per µg of the protein as determined by the LAL method		
<b>Biological Activity:</b>	Measured by its binding ability in a functional ELISA. Immobilized human CD131 at 10 µg/ml (100 µl/well) can bind human Fc-GMCSF, The EC50 of human Fc-GMCSF is 250 -500 ng/ml.		
<b>Predicted N-terminal:</b>	Trp 17		
<b>Reconstitution:</b>	<b>Centrifuge vial prior to opening.</b> Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial. <b>DO NOT VORTEX.</b> Allow several minutes for complete reconstitution.		
<b>Storage &amp; Stability:</b>	Stable for up to 1 year from date of receipt at -20°C to -80°C After reconstitution, store working aliquots at -20°C to -80°C. <b>Avoid repeated freeze-thaw cycles.</b>		

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



SDS-PAGE



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