Datasheet for ABIN7317843

# CD131 Protein (His tag)

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## Overview

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| Quantity: | 100 µg |
| Target: | CD131 (CSF2RB) |
| Origin: | Human |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Biological Activity: | Active |
| Purification tag / Conjugate: | This CD131 protein is labelled with His tag. |

## Product Details

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| Purpose: | Recombinant Human CD131/CSF2RB Protein (His Tag)(Active) |
| Sequence: | Met 1-Trp 443 |
| Characteristics: | A 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. |
| Purity: | > 97 % as determined by reducing SDS-PAGE. |
| Endotoxin Level: | < 1.0 EU per µg as determined by the LAL method. |
| Biological Activity Comment: | Measured by its binding ability in a functional ELISA.Immobilized human CD131 at 10 µg/ml (100 µl/well) can bind biotinylated human EPOR/Fc with a linear range of 0.16-4 µg/ml. |

## Target Details

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| Target: | CD131 (CSF2RB) |

## Target Details

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| Alternative Name: | CD131/CSF2RB (CSF2RB Products) |
| Background: | Background: 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.<br>Synonym: CD131,CDw131,IL3RB,IL5RB,SMDP5 |
| Molecular Weight: | 50 kDa |
| NCBI Accession: | NP_000386 |
| Pathways: | JAK-STAT Signaling |

## Application Details

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| Restrictions: | For Research Use only |

## Handling

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| Format: | Lyophilized |
| Reconstitution: | Please refer to the printed manual for detailed information. |
| Buffer: | Lyophilized from sterile PBS, pH 7.4 |
| Storage: | 4 °C,-20 °C,-80 °C |
| Storage Comment: | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months. |