

For Research Use Only

Recombinant Mouse IL-3RB/CD131 protein (rFc Tag)



Catalog Number: Eg2173

Basic Information

Species:
Mouse

Purity:
>90 %, SDS-PAGE

Tag:
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE

Endotoxin Level:
<0.1 EU/μg protein, LAL method

Source:
HEK293-derived Mouse IL-3RB protein His23-Trp441 (Accession# P26955) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
12983

Accession:
P26955

Predicted Molecular Mass:
74.7 kDa

SDS-PAGE:
70-90 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

CD131, also known as IL-3RB, IL-5RB, colony stimulating factor 2 receptor subunit beta (CSF2RB), or cytokine receptor common subunit beta, is the common subunit of the type I cytokine receptors for granulocyte-macrophage colony-stimulating factor (GM-CSF), IL-3 and IL-5. It is expressed predominantly by hematopoietic cells but also by non-hematopoietic cells. CD131 mediates intracellular signaling by JAK2, leading to phosphorylation of CD131 and triggering signaling pathways such as STAT5, MAPK and PI3-Kinase/AKT which regulate cell survival, proliferation and function.

References

1. Beatriz F Côrte-Real, et al. (2022) Front Immunol. 13:1005965.
2. C L Scott, et al. (1999) Int J Biochem Cell Biol. 31(10):1011-5.
3. Timothy R Hercus, et al. (2013) Cytokine Growth Factor Rev. 24(3):189-201.

Synonyms

Aic2b, CD131, Csf2rb, Csf2rb1, Cytokine receptor common subunit beta

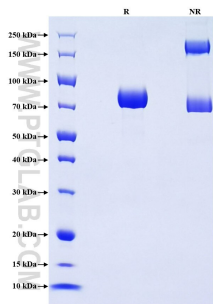
For technical support and original validation data for this product please contact

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Purity of Recombinant Mouse IL-3RB was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.