Recombinant Mouse IL-4R alpha/CD124 Protein

Catalog No.: RP01680

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Sequence Information

Species
Mouse

Gene ID
16190

Swiss Prot
P16382

Tags
C-6His

Synonyms
Il4r; CD124; IL-4R

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
25.22 kDa

Observed MW
35-50 kDa

Endotoxin
< 0.1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

CD124, also known as the interleukin 4 receptor (IL4R), is a typel transmembrane protein that can regulate IgE antibody production in B cells through binding to interleukin 4 and interleukin 13 and promote differentiation of Th2 cells through binding to interleukin 4. The membrane-bound form of CD124 can be hydrolyzed to a soluble form which can inhibit IL4-mediated cell proliferation and IL5 upregulation by T-cells.

Basic Information

Description
Recombinant Mouse IL-4R alpha/CD124 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ile 26 - Arg 233) of mouse IL4R (Accession #NP_001008700.1) fused with and a 6×His tag at the C-terminus.

Activity
Measured by its ability to inhibit the mIL-4-dependent proliferation of HT-2 mouse T cells. The ED_{50} for this effect is 0.5-2 μg/mL in the presence of 5 ng /mL of recombinant mouse IL-4(Catalog: RP01161).

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

400-999-6126
cn.market@abclonal.com.cn
www.abclonal.com.cn

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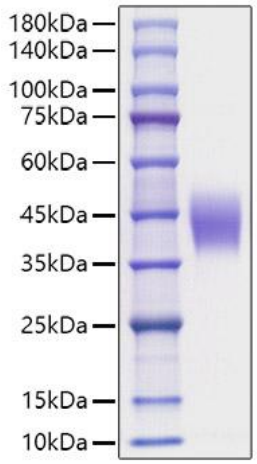
Please visit http://abclonal.com for a complete listing of recommended products.

Validation Data



Recombinant Mouse IL-4R alpha/CD124 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.