

Recombinant Human KLRB1/CD161 Protein

Catalog No.: RP00430

Sequence Information

Species	Gene ID
Human	3820
Swiss Prot	Tags
Q12918-1	C-His

Synonyms

KLRB1; CLEC5B; NKR-P1A; NKR-P1A; HNKR-P1a; CD161; Ly59; NKR; NKR-P1; NKR-P1; NKR-P1ANKR

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE; ≥ 95 % as determined by HPLC.

Calculated MW Observed MW

19.6 kDa 38-45 kDa

Endotoxin

< 1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

CD161 (NKR-P1) is a lectin-like receptor present on NK cells and rare T-cell subsets. We have observed CD161 expression in some cases of T-cell prolymphocytic leukemia (T-PLL) and found it to be useful in follow-up and detection of disease after treatment.

Basic Information

Description

Recombinant Human KLRB1/CD161 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gln67-Ser225) of Human KLRB1/CD161 (Accession #Q12918-1) fused with a C-His tag at the C-terminus.

Activity

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°C

Operational Notes

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

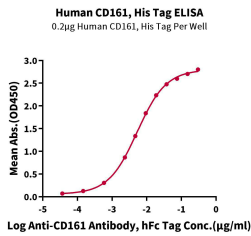
Contact

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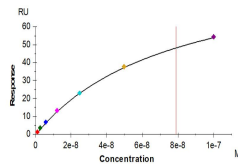
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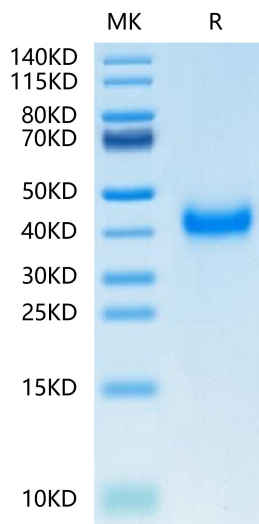
Validation Data



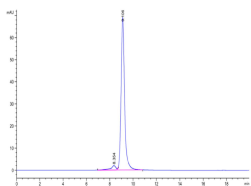
Immobilized Human CD161, His Tag at 2 µg/mL (100 µL/Well) on the plate. Dose response curve for Anti-CD161 Antibody, hFc Tag with the EC₅₀ of 5.3ng/mL determined by ELISA (QC Test).



Anti-CD161 Antibody, hFc tag captured on CM5 Chip via Anti-hFc IgG can bind Human CD161, His Tag with an affinity constant of 78.8 nM as determined in SPR assay (Biacore T200).



Recombinant Human KLRB1/CD161 Protein was determined by Tris-Bis PAGE under reducing conditions.



The purity of Human CD161 is greater than 95% as determined by SEC-HPLC.