

Human CD161 Protein

Cat. No. CD1-HM161

Description

Source	Recombinant Human CD161 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Gln67-Ser225.
Accession	Q12918-1
Molecular Weight	The protein has a predicted MW of 19.6 kDa. Due to glycosylation, the protein migrates to 38-45 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

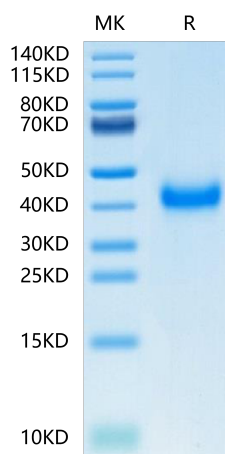
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

CD161 (NKR1) 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.

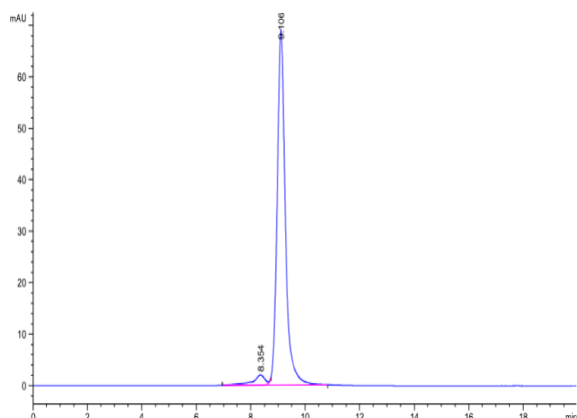
Assay Data

Bis-Tris PAGE



Human CD161 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



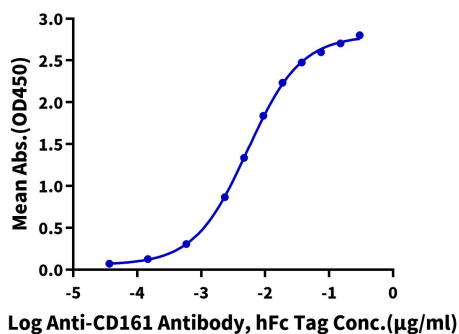
The purity of Human CD161 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

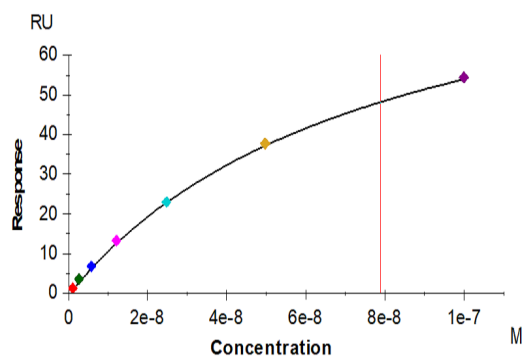
Human CD161, His Tag ELISA

0.2µg Human CD161, His Tag Per Well



Immobilized Human CD161, His Tag at 2µg/ml (100µl/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).

SPR Data



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).