

Biotinylated Human CD161 Protein, Ultra Low Endotoxin

Cat. No. CD1-HM461B-UL

Description

Source	Recombinant Biotinylated Human CD161 Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Gln67-Ser225.
Accession	Q12918-1
Molecular Weight	The protein has a predicted MW of 21.4 kDa. Due to glycosylation, the protein migrates to 41-45 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.01 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 90% as determined by HPLC

Formulation and Storage

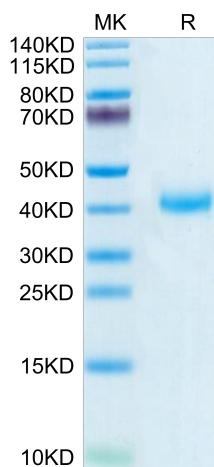
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 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.

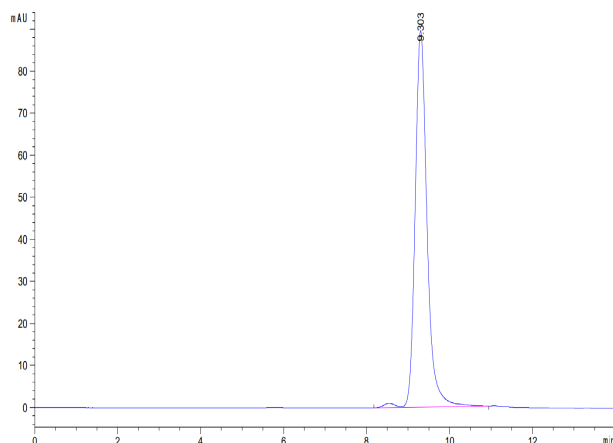
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



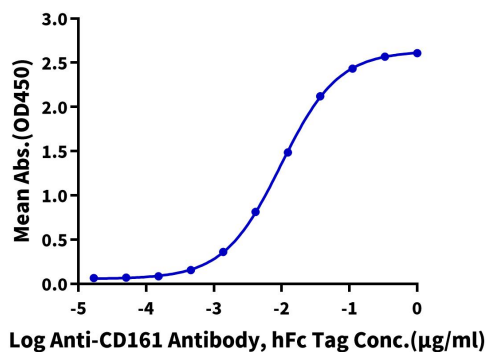
The purity of Biotinylated Human CD161 is greater than 90% as determined by SEC-HPLC.

Assay Data

ELISA Data

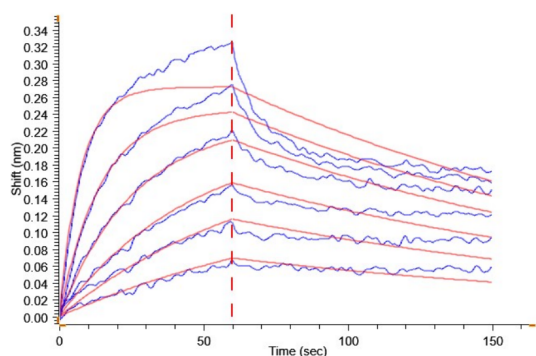
Biotinylated Human CD161, His Avi Tag ELISA

0.05µg Biotinylated Human CD161, His Avi Tag Per Well



Immobilized Biotinylated Human CD161, His Avi Tag at 0.5µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Anti-CD161 Antibody, hFc Tag with the EC50 of 9.8ng/ml determined by ELISA.

BLI Data



Loaded Anti-CD161 Antibody, hFc Tag on ProA-Biosensor can bind Biotinylated Human CD161, His-Avi Tag with an affinity constant of 9.09 nM as determined in BLI assay (Gator® Prime).