Data Sheet (Cat.No.TMPK-00955)

TargetMol

CD161 Protein, Human, Recombinant (His & Avi), Biotinylated

General Information

Synonyms:	NKRP1;HNKR-P1a;NKRP1A;CD161;NKR-P1A;Ly59;NKRP1ANKR;NKR;NKR-P1;KLRB1;CLEC5B
Protein Construction:	Gln67-Ser225
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q12918-1
Molecular Weight:	21.4 kDa (predicted). Due to glycosylation, the protein migrates to 41-45 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Anti-CD161 Antibody, hFc Tag at 5μg/ml (100μl/well) on the plate. Dose response curve for Biotinylated Human CD161, His Tag with the EC50 of 41.8ng/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

CD161 (NKRP1) 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.

Reference

Gilles SR, et al. CD161 Is Expressed in a Subset of T-Cell Prolymphocytic Leukemia Cases and Is Useful for Disease Follow-up. Am J Clin Pathol. 2019 Sep 9;152(4):471-478. doi: 10.1093/ajcp/aqz060. PMID: 31305900.

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