

PRODUCT INFORMATION

Target	CD161
Synonyms	CD161, KLRB1, NKR, NKR-P1, NKR-P1A, NKR-P1A, CLEC5B, Natural Killer Cell Surface Protein P1A, Killer Cell Lectin-Like Receptor Subfamily B Member 1, C-Type Lectin Domain Family 5 Member B
Description	Recombinant Cynomolgus CD161 protein with N-terminal human Fc tag
Delivery	In STOCK
Uniprot ID	A0A7N9D796
Expression Host	HEK293
Tag	N-Human Fc tag
Molecular Characterization	hFc(Glu99-Ala330)+CD161(Gln67-Leu227)
Molecular Weight	The protein has a predicted molecular mass of 44.7 kDa after removal of the signal peptide.
Purity	The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.
Formulation & Reconstitution	Lyophilized from sterile PBS, pH 7.4. Normally 5% - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.
Sterility	Products are supplied non-sterile. For cell culture applications, dilute in appropriate medium and sterile-filter (0.22 µm) prior to use.
Storage&Shipping	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
Background	CD161, also known as KLRB1 or NKR-P1A, is a type II transmembrane glycoprotein belonging to the C-type lectin-like receptor family. It contains an extracellular C-type lectin-like domain, a single transmembrane region, and an intracellular cytoplasmic domain. CD161 is expressed on natural killer (NK) cells and several T-cell subsets, including natural killer T (NKT) cells, mucosal-associated invariant T (MAIT) cells, and subsets of CD4+ and CD8+ T cells. The major ligand of CD161 is lectin-like transcript 1 (LLT1), also known as CLEC2D. Interaction between CD161 and LLT1 regulates immune-cell activation, cytokine production, and cytotoxic activity. Depending on the immune-cell type and cellular context, CD161 signaling may exert inhibitory or costimulatory effects. The CD161/LLT1 signaling axis is involved in immune surveillance, inflammation, infectious diseases, and tumor immunity, making CD161 a potential target for immunological and cancer-related research.
Usage	Research use only
Conjugate	Unconjugated



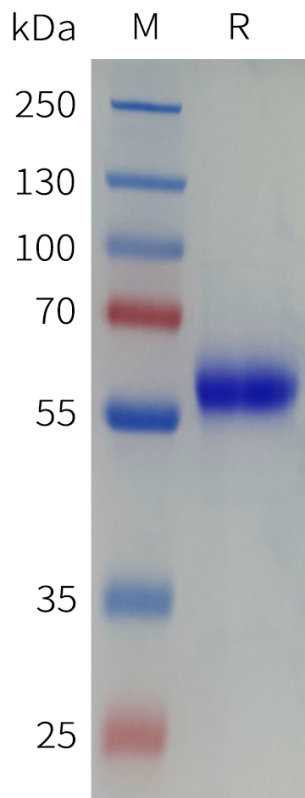


Figure 1. Cynomolgus CD161 Protein, hFc Tag on SDS-PAGE under reducing condition.

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