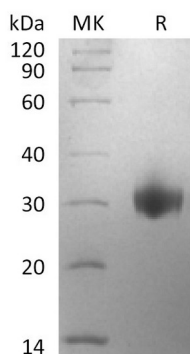


## Summary

<b>Name</b>	CD161
<b>Purity</b>	Greater than 95% as determined by reducing SDS-PAGE
<b>Endotoxin level</b>	<1 EU/μg as determined by LAL test.
<b>Construction</b>	Recombinant Human Killer cell lectin-like receptor subfamily B member 1 is produced by our Mammalian expression system and the target gene encoding Gln67-Ser225 is expressed with a 6His tag at the C-terminus.
<b>Accession #</b>	AAI14517.1
<b>Host</b>	Human cells
<b>Species</b>	Human
<b>Predicted Molecular Mass</b>	20.1 KDa
<b>Formulation</b>	Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
<b>Stability&amp;Storage</b>	Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
<b>Reconstitution</b>	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100μg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

## SDS-PAGE image



## Background

**Product Name: Recombinant Human CD161 (C-6His)**  
**Catalog #: PHH2455**



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**Alternative Names**

Killer cell lectin-like receptor subfamily B member 1; KLRB1; CLEC5B; NKRP1A; CD161; Natural killer cell surface protein P1A; NKR-P1A; HNKRP-1a; C-type lectin domain family 5 member B; KLRB1

**Background**

Killer cell lectin-like receptor subfamily B, member 1(KLRB1) is a single-pass type II membrane protein which contains 1 C-type lectin domain. KLRB1 plays an inhibitory role on natural killer (NK) cells cytotoxicity. Activation results in specific acid sphingomyelinase/SMPD1 stimulation with subsequent marked elevation of intracellular ceramide. Activation also leads to AKT1/PKB and RPS6KA1/RSK1 kinases stimulation as well as markedly enhanced T-cell proliferation induced by anti-CD3. It acts as a lectin that binds to the terminal carbohydrate Gal-alpha(1,3)Gal epitope as well as to the N-acetyllactosamine epitope. Binds also to CLEC2D/LLT1 as a ligand and inhibits NK cell-mediated cytotoxicity as well as interferon-gamma secretion in target cells.

**Note**

For Research Use Only , Not for Diagnostic Use.