

**Product Name: CD161 Rabbit Polyclonal Antibody**  
**Catalog #: APRab08237**



## Summary

<b>Production Name</b>	CD161 Rabbit Polyclonal Antibody
<b>Description</b>	Rabbit Polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,ELISA
<b>Reactivity</b>	Human,Rat,Mouse

## Performance

<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
<b>Purification</b>	Affinity purification

## Immunogen

<b>Gene Name</b>	KLRB1 KLRB1; CLEC5B; NKR-P1A; Killer cell lectin-like receptor subfamily B member 1; C-type lectin domain family 5 member B; HNKR-P1a; NKR-P1A; Natural killer cell surface protein P1A; CD161
<b>Alternative Names</b>	
<b>Gene ID</b>	3820.0
<b>SwissProt ID</b>	Q12918.The antiserum was produced against synthesized peptide derived from the Internal region of human KLRB1. AA range:101-150

## Application

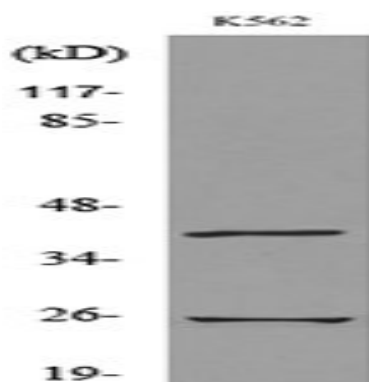
<b>Dilution Ratio</b>	WB 1:500 - 1:2000. ELISA: 1:20000
<b>Molecular Weight</b>	25kD

## Background

Natural killer (NK) cells are lymphocytes that mediate cytotoxicity and secrete cytokines after immune stimulation. Several genes of the C-type lectin superfamily, including the rodent NKRP1 family of glycoproteins, are expressed by NK cells and may be involved in the regulation of NK cell function. The KLRB1 protein contains an extracellular domain with several motifs characteristic of C-type lectins, a transmembrane domain, and a cytoplasmic domain. The KLRB1 protein is classified as a type II membrane protein because it has an external C terminus. [provided by RefSeq, Jul 2008],function: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. 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.,induction:By IL12 in NK cells.,online information:NKRP1,PTM:N-glycosylated. Contains sialic acid residues.,similarity:Contains 1 C-type lectin domain.,subunit:Homodimer; disulfide-linked. Interacts with acid sphingomyelinase/SMPD1.,tissue specificity:Expressed in a subset of NK cells predominantly in intestinal epithelium and liver. Detected in peripheral blood T-cells and preferentially in adult T-cells with a memory antigenic phenotype.,

## Research Area

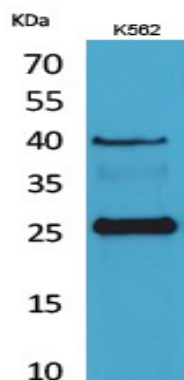
## Image Data



Western blot analysis of lysate from K562 cells, using KLRB1 Antibody.

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Western Blot analysis of K562 cells using CD161 Polyclonal Antibody.. Secondary antibody was diluted at 1:20000

### **Note**

For research use only.