

## ARG54259 anti-CD161 antibody [HP-3G10] (PE)

Package: 50 tests

Store at: 4°C

### Summary

Product Description	PE-conjugated Mouse Monoclonal antibody [HP-3G10] recognizes CD161
Tested Reactivity	Hu, NHuPrm
Tested Application	FACS
Specificity	The clone HP-3G10 recognizes CD161, a type II transmembrane C-type lectin receptor, expressed on the plasma membrane of NK cells, dendritic cells, activated monocytes and a subset of T cells as a disulphide-linked homodimer.
Host	Mouse
Clonality	Monoclonal
Clone	HP-3G10
Isotype	IgG1
Target Name	CD161
Species	Human
Immunogen	human NK cells
Conjugation	PE
Alternate Names	CLEC5B; CD antigen CD161; CD161; NKR-P1; NKR-P1A; Killer cell lectin-like receptor subfamily B member 1; NKRP1A; NKR; HNKRP-1a; Natural killer cell surface protein P1A; C-type lectin domain family 5 member B; hNKR-P1A

### Application Instructions

Application table	Application	Dilution
	FACS	10 µl / 10 <sup>6</sup> cells

**Application Note** \* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

### Properties

Form	Liquid
Purification Note	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
Buffer	PBS, 15 mM Sodium azide and 0.2% (w/v) high-grade protease free BSA
Preservative	15 mM Sodium azide
Stabilizer	0.2% (w/v) high-grade protease free BSA
Storage instruction	Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be

gently mixed before use.

Note

For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

Database links

[GeneID: 3820 Human](#)

[Swiss-port # Q12918 Human](#)

Gene Symbol

KLRB1

Gene Full Name

killer cell lectin-like receptor subfamily B, member 1

Background

CD161, also known as Nkrp1 (natural killer receptor protein 1) or Klrb1 (killer cell lectin-like receptor subfamily b member 1), is a disulphide-linked homodimeric receptor, which is involved in regulation of NK cell and NKT cell function. It is expressed on a majority of NK cells, NKT cells, and e.g. Th17 cells and CD3+ thymocytes. Although rat CD161 has three isoforms (a, b, c), the human CD161 is expressed as one isoform.

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. [UniProt]

Research Area

Developmental Biology antibody; Immune System antibody

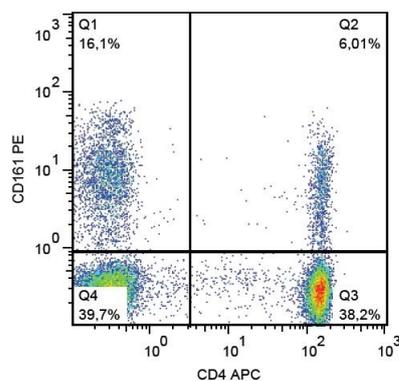
Calculated Mw

25 kDa

PTM

N-glycosylated. Contains sialic acid residues.

## Images



ARG54259 anti-CD161 antibody [HP-3G10] (PE) FACS image

Flow Cytometry: Human peripheral blood cells stained with ARG54259 anti-CD161 antibody [HP-3G10] (PE).