

Datasheet for ABIN1981890
anti-CD161 antibody (PE)[Go to Product page](#)**1** Image**5** Publications

Overview

Quantity:	100 tests
Target:	CD161 (KLRB1)
Reactivity:	Human, Non-Human Primate
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD161 antibody is conjugated to PE
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	human NK cells
Clone:	HP-3G10
Isotype:	IgG1 kappa
Specificity:	The mouse monoclonal antibody HP-3G10 recognizes an extracellular epitope of 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.
Cross-Reactivity (Details):	Human, Non-Human Primates
Purification:	Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

Target:	CD161 (KLRB1)
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Target Details

Alternative Name:	CD161 (KLRB1 Products)
Background:	Killer cell lectin like receptor B1,CD161, also known as Nkrp1 (natural killer receptor protein 1) or Klrp1 (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 rat NK cells, subset of T cells, dendritic cells, and activated monocytes. Although human CD161 is expressed as one isoform, the rat CD161 has three isoforms, referred to as CD161a, b, and c. These proteins contain C-terminal C-type lectin extracellular domain, a transmembrane domain, and N-terminal intracellular domain, which contains ITIM motif, such as CD161b, and displays inhibitory function, or does not contain ITIM motif, thus also not the inhibitory function, such as CD161a.,NKRP1A, KLRB1, CLEC5B
Gene ID:	3820
UniProt:	Q12918

Application Details

Application Notes:	Flow cytometry: The reagent is designed for analysis of human blood cells using 10 µL reagent / 100 µL of whole blood or 10 ⁶ cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.
Comment:	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.
Restrictions:	For Research Use only

Handling

Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label. Short-term exposure to room temperature should not affect the quality of the reagent. However, if reagent is stored under any conditions other than those specified, the conditions must be verified by the user.

Handling

Storage: 4 °C

Storage Comment: Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Publications

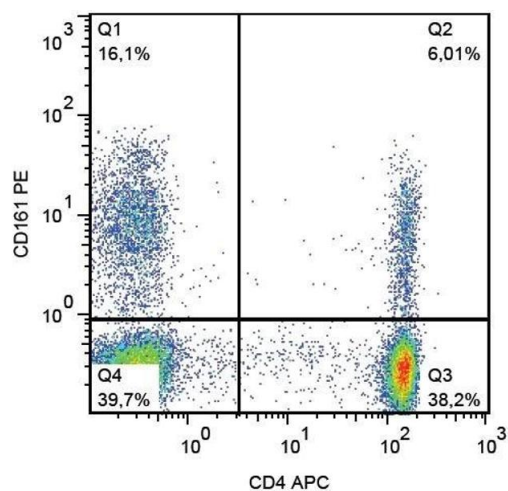
Product cited in: Wong, Akilimali, Govender, Sullivan, Cosgrove, Pillay, Lewinsohn, Bishai, Walker, Ndungu, Klenerman, Kasproicz: "Low levels of peripheral CD161++CD8+ mucosal associated invariant T (MAIT) cells are found in HIV and HIV/TB co-infection." in: **PLoS ONE**, Vol. 8, Issue 12, pp. e83474, (2014) ([PubMed](#)).

Tresoldi, DellAlbani, Stabilini, Jofra, Valle, Gagliani, Bondanza, Roncarolo, Battaglia: "Stability of human rapamycin-expanded CD4+CD25+ T regulatory cells." in: **Haematologica**, Vol. 96, Issue 9, pp. 1357-65, (2011) ([PubMed](#)).

Germain, Meier, Jensen, Knapnougel, Poupon, Lazzari, Neisig, Håkansson, Dong, Wagtmann, Galsgaard, Spee, Braud: "Induction of lectin-like transcript 1 (LLT1) protein cell surface expression by pathogens and interferon- γ contributes to modulate immune responses." in: **The Journal of biological chemistry**, Vol. 286, Issue 44, pp. 37964-75, (2011) ([PubMed](#)).

Goetzl, Huang, Kon, Patel, Schwartz, Fast, Ferrucci, Madara, Taub, Longo: "Gender specificity of altered human immune cytokine profiles in aging." in: **FASEB journal : official publication of the Federation of American Societies for Experimental Biology**, Vol. 24, Issue 9, pp. 3580-9, (2010) ([PubMed](#)).

Pozo, Valés-Gómez, Mavaddat, Williamson, Chisholm, Reyburn: "CD161 (human NKR-P1A) signaling in NK cells involves the activation of acid sphingomyelinase." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 176, Issue 4, pp. 2397-406, (2006) ([PubMed](#)).



Flow Cytometry

Image 1. Surface staining of human peripheral blood cells using anti-CD161 (HP-3G10) PE.