Datasheet for ABIN1981864

anti-CD161 antibody

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Overview

Quantity:	0.1 mg
Target:	CD161 (KLRB1)
Reactivity:	Human, Non-Human Primate
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD161 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Western Blotting (WB), Immunohistochemistry (Frozen Sections) (IHC (fro))

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 by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

Target Details

Target:	CD161 (KLRB1)
Alternative Name:	CD161 (KLRB1 Products)
Background:	Killer cell lectin like receptor B1,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 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: Recommended dilution: 1-4 µg/mL.
Restrictions:	For Research Use only

Handling

Concentration:	1 mg/mL
Buffer:	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. Do not use after expiration date stamped on vial label.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

Publications

Product cited in:	Tresoldi, DellAlbani, Stabilini, Jofra, Valle, Gagliani, Bondanza, Roncarolo, Battaglia: "Stability of human rapamycin-expanded CD4+CD25+ T regulatory cells." in: **Haematologica**, Vol. 96, Issue

Publications

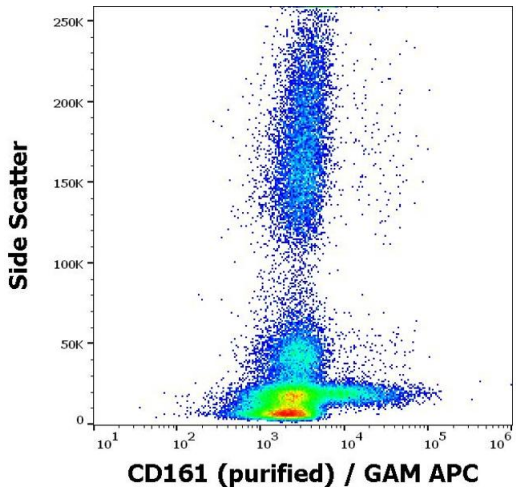
9, pp. 1357-65, (2011) (PubMed).

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-? 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).

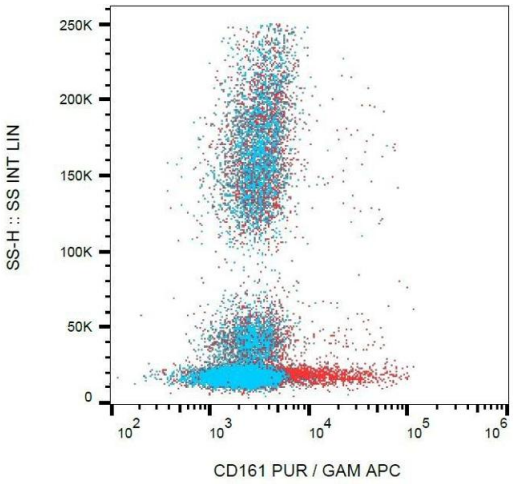
Pozo, Valés-Gómez, Mavaddat, Williamson, Chisholm, Reyburn: "CD161 (human NKR-P1A) signaling in NK cells involves the activation of acid sphingomyelinase." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 176, Issue 4, pp. 2397-406, (2006) (PubMed).

Images



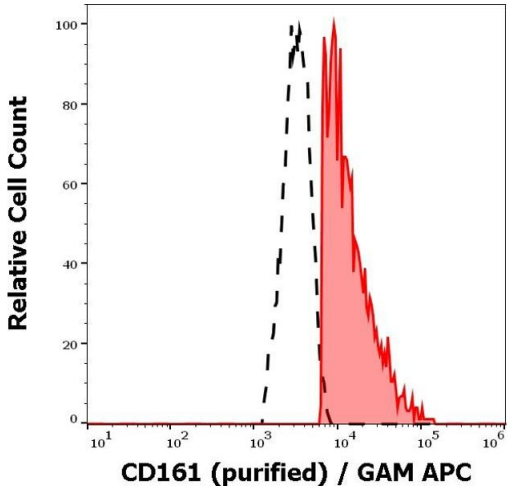
Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human peripheral blood cells stained using anti-human CD161 (HP-3G10) purified antibody (concentration in sample 4 µg/mL) GAM APC.



Flow Cytometry

Image 2. Surface staining of human peripheral blood cells using anti-CD161 (HP-3G10) purified, GAM-APC.



Flow Cytometry

Image 3. Separation of human CD161 positive lymphocytes (red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD161 (HP-3G10) purified antibody (concentration in sample 4 µg/mL) GAM APC.