Datasheet for ABIN2749047

anti-CD161 antibody (PE)

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Overview

Quantity:	0.1 mg
Target:	CD161 (KLRB1)
Reactivity:	Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD161 antibody is conjugated to PE
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	Splenic cells purified from the LEW rat
Clone:	10-78
Isotype:	IgG1 kappa
Specificity:	The mouse monoclonal antibody 10/78 recognizes CD161, an approximately 30 kDa 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. A common extracellular epitope on rat CD161a and b isoforms is detected.
Cross-Reactivity (Details):	Rat
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)
Alternative Name:	CD161 (KLRB1 Products)
Background:	Killer cell lectin-like receptor subfamily B, memb,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, Klrb
Gene ID:	689817
UniProt:	Q0ZUP0

Application Details

Application Notes:	Flow cytometry: Recommended dilution: 1-5 µg/mL.
Comment:	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography.
Restrictions:	For Research Use only

Handling

Concentration:	0.5 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.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Publications

Product cited in:	Chang, Tai, Roffler, Hwang: "The immunization site of cytokine-secreting tumor cell vaccines

Publications

influences the trafficking of tumor-specific T lymphocytes and antitumor efficacy against regional tumors." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 173, Issue 10, pp. 6025-32, (2004) (PubMed).

Stephens, Barclay, Mason: "Phenotypic characterization of regulatory CD4+CD25+ T cells in rats." in: **International immunology**, Vol. 16, Issue 2, pp. 365-75, (2004) (PubMed).

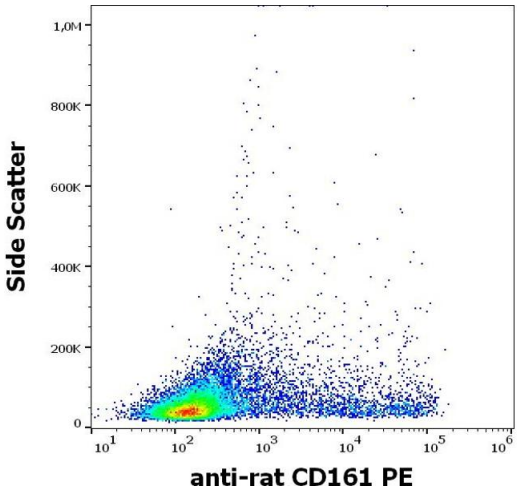
May, Dorris, Satumtira, Iqbal, Rehman, Lightfoot, Taurog: "CD8 alpha beta T cells are not essential to the pathogenesis of arthritis or colitis in HLA-B27 transgenic rats." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 170, Issue 2, pp. 1099-105, (2003) (PubMed).

Tliba, Chauvin, Le Vern, Boulard, Sbille: "Evaluation of the hepatic NK cell response during the early phase of Fasciola hepatica infection in rats." in: **Veterinary research**, Vol. 33, Issue 3, pp. 327-32, (2002) (PubMed).

Sedgwick, Ford, Foulcher, Airriess: "Central nervous system microglial cell activation and proliferation follows direct interaction with tissue-infiltrating T cell blasts." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 160, Issue 11, pp. 5320-30, (1998) (PubMed).

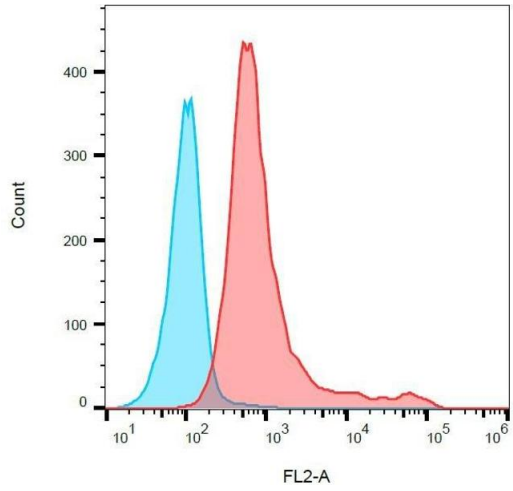
There are more publications referencing this product on: Product page

Images



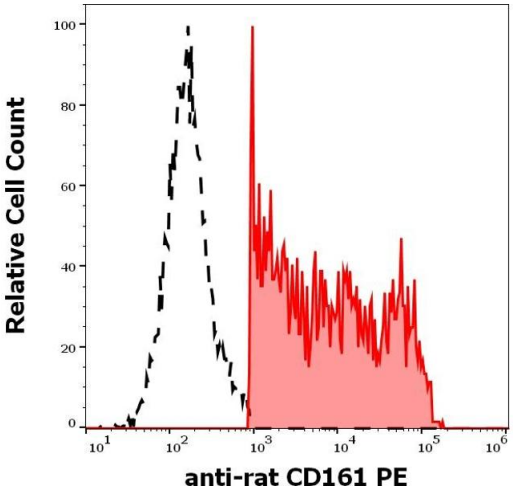
Flow Cytometry

Image 1. Flow cytometry surface staining pattern of rat splenocyte suspension stained using anti-rat CD161 (10/78) PE antibody (concentration in sample 1 µg/mL).



Flow Cytometry

Image 2. Surface staining of CD161 in rat splenocytes with anti-CD161 (10/78) PE.



Flow Cytometry

Image 3. Separation of rat CD28 positive splenocytes (red-filled) from CD28 negative splenocytes (black-dashed) in flow cytometry analysis (surface staining) of rat splenocyte suspension stained using anti-rat CD161 (10/78) PE antibody (concentration in sample 1 µg/mL).

