

Datasheet for ABIN2749046
anti-CD161 antibody (FITC)[Go to Product page](#)

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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 FITC
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 fluorescein isothiocyanate (FITC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

Target:	CD161 (KLRB1)
Alternative Name:	CD161 (KLRB1 Products)
Background:	<p>Killer cell lectin-like receptor subfamily B, memb,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.</p> <p>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, Klrp</p>
Gene ID:	689817
UniProt:	Q0ZUP0

Application Details

Application Notes:	Flow cytometry: Recommended dilution: 2-5 µg/mL.
Comment:	The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC.
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:	Stephens, Barclay, Mason: "Phenotypic characterization of regulatory CD4+CD25+ T cells in
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rats." in: **International immunology**, Vol. 16, Issue 2, pp. 365-75, (2004) ([PubMed](#)).

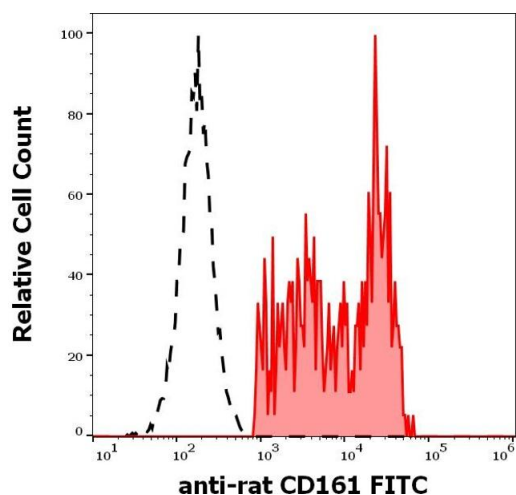
May, Dorris, Satumtira, Iqbal, Rehman, Lightfoot, Taurog: "CD8 alpha beta T cells are not essential to the pathogenesis of arthritis or colitis in HLA-B27 transgenic rats." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 170, Issue 2, pp. 1099-105, (2003) ([PubMed](#)).

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](#)).

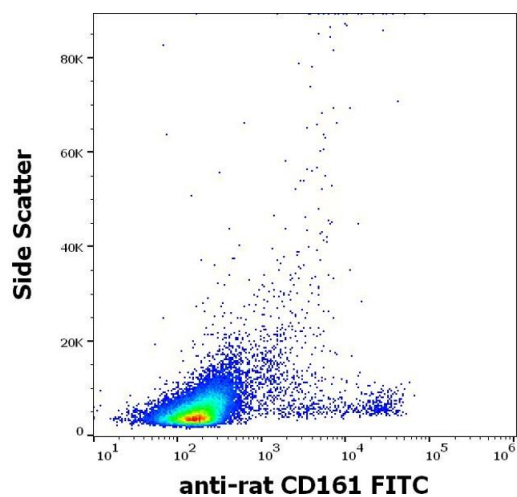
Kraus, Lambracht, Wonigeit, Hünig: "Negative regulation of rat natural killer cell activity by major histocompatibility complex class I recognition." in: **European journal of immunology**, Vol. 26, Issue 11, pp. 2582-6, (1997) ([PubMed](#)).

Images



Flow Cytometry

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



Flow Cytometry

Image 2. Flow cytometry surface staining pattern of rat splenocytes stained using anti-rat CD161 (10/78) FITC antibody (concentration in sample 1 µg/mL).