

Monoclonal Antibody to Rat CD161 -FITC

Alternate names:	C-type lectin domain family 5 member B, CLEC5B, HNKRP1a, Killer cell lectin-like receptor subfamily B member 1, NKR1A, Natural killer cell surface protein P1A
Catalog No.:	SM293F
Quantity:	0.1 mg
Concentration:	0.1 mg/ml
Background:	<p>Natural killer (NK) cells are lymphocytes that mediate cytotoxicity and secrete cytokines after immune stimulation. Several genes of the C-type lectin superfamily, including the rodent NKR1 family of glycoproteins, are expressed by NK cells and may be involved in the regulation of NK cell function. The KLRB1 (CD161) protein contains an extracellular domain with several motifs characteristic of C type lectins, a transmembrane domain, and a cytoplasmic domain. The KLRB1 protein is classified as a type II membrane protein because it has an external C terminus.</p> <p>In mouse the NKR1 family has three members, NKR1A, B and C, whilst in human only one member has been identified. The human protein has received the designation CD161, and the mouse proteins have been referred to as CD161a, b and c. Engagement of CD161c has been reported to have activating function in NK cells, whilst engagement of CD161b is inhibitory.</p>
Uniprot ID:	Q12918
NCBI:	NP_002249.1
GeneID:	3820
Host / Isotype:	Mouse / IgG1
Clone:	10/78
Immunogen:	<p>Purified splenic NK cells from the LEW rat strain.</p> <p>Spleen cells from immunised BALB/c mice were fused with cells of the mouse X63.Ag8653 myeloma cell line.</p>
Format:	<p>State: Liquid purified IgG fraction.</p> <p>Purification: Affinity Chromatography on Protein G.</p> <p>Buffer System: PBS, pH 7.4 containing 0.09% Sodium Azide as preservative and 1% BSA as stabilizer.</p> <p>Label: FITC – Fluorescein Isothiocyanate Isomer 1</p>
Applications:	<p>Flow cytometry: use 10 µl of Neat-1/100 diluted antibody to label 10e6 cells.</p> <p>Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.</p>

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- Specificity:** This antibody recognises the rat CD161 protein (also known as NKR-PI) a 60kD glycoprotein expressed on rat NK cells and T cell subpopulations. This antibody competes with clone 3.2.3 for binding to antigen.
Species: Rat.
Other species not tested.
- Storage:** Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. This product is photosensitive and should be protected from light.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.
- General References:** 1. Sedgwick, J.D. et al. (1998) Central Nervous system microglial cell activation and proliferation follows direct interaction with Tissue-infiltrating T Cell Blasts. *J. Immunol.* 160: 5320-5330.
2. Tliba, O. et al. (2002) Evaluation of the hepatic NK cell response during the early phase of *Fasciola hepatica* infection in rats. *Vet. Res.* 33(3):327-32.

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