

Product datasheet for **SM293F**

CD161 (KLRB1) Mouse Monoclonal Antibody [Clone ID: 10/78]

Product data:

Product Type:	Primary Antibodies
Clone Name:	10/78
Applications:	FC
Recommended Dilution:	Flow cytometry: use 10 µl of Neat-1/100 diluted antibody to label 10e6 cells.
Reactivity:	Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified splenic NK cells from the LEW rat strain. Spleen cells from immunised BALB/c mice were fused with cells of the mouse X63.Ag8653 myeloma cell line.
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.
Formulation:	PBS, pH 7.4 containing 0.09% Sodium Azide as preservative and 1% BSA as stabilizer. Label: FITC State: Liquid purified IgG fraction. Label: Fluorescein Isothiocyanate Isomer 1
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein G.
Conjugation:	FITC
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.
Stability:	Shelf life: one year from despatch.
Gene Name:	killer cell lectin like receptor B1
Database Link:	<u>Q12918</u>


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Background:

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 NKRP1 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.

In mouse the NKRP1 family has three members, NKRP1A, 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.

Synonyms:

HNKR-P1a, CLEC5B, NKRP1A