

Product datasheet for **SM293PS**

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

Product data:

Product Type:	Primary Antibodies
Clone Name:	10/78
Applications:	FC, IHC, IP
Recommended Dilution:	Flow Cytometry: 1/50-1/100; use 10ul of the suggested working dilution to label 10e6 cells in 100 ul. Immunoprecipitation. Immunohistochemistry on frozen sections.
Reactivity:	Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified splenic NK cells from the LEW rat strain.
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. We recommend the use of SM293A use in functional studies. Clone R29 is reported as being suitable for Western blotting. We recommend the use of SM1383R or this application.
Formulation:	PBS, pH 7.4 with 0.09% sodium azide as preservative. State: Purified State: Liquid purified IgG fraction.
Concentration:	lot specific
Purification:	Protein G affinity chromatography.
Conjugation:	Unconjugated
Storage:	Store the antibody (undiluted) at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freeze-thaw cycles.
Stability:	Shelf life: One year from despatch.
Gene Name:	killer cell lectin like receptor B1



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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