

Product datasheet for **SM293P**

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

Product data:

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| Product Type: | Primary Antibodies |
| Clone Name: | 10/78 |
| Applications: | FC, IHC, IP, R, WB |
| Recommended Dilution: | Western Blot. Flow Cytometry: 1/50-1/100. Immunoprecipitation. Radioimmunoassays. Immunohistochemistry on Frozen Sections. Functional Assays: Use Azide Free CD161 Antibody Cat.-No SM293A. |
| 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 Monoclonal antibody competes with Clone3.2.3 for binding to antigen. |
| Formulation: | PBS, pH 7.4 State: Purified State: Liquid purified IgG fraction from Tissue Culture Supernatant Preservative: 0.09% Sodium Azide |
| Concentration: | lot specific |
| Purification: | Affinity Chromatography on Protein G |
| Conjugation: | Unconjugated |
| Storage: | Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. |
| 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