

Product datasheet for **SM1611PS**

CD161 (KLRB1) Mouse Monoclonal Antibody [Clone ID: B199.2]

Product data:

Product Type:	Primary Antibodies
Clone Name:	B199.2
Applications:	FC, IHC, IP
Recommended Dilution:	Flow Cytometry: Use 10 µl of 1/50-1/100 diluted antibody to label 10e6 cells in 100 µl. Immunoprecipitation. Immunohistochemistry on Frozen Sections.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Spleen cells from immunised BALB/c mice were fused with cells of the mouse P2X63.Ag8.653 myeloma cell line.
Specificity:	This antibody recognises the CD161 cell surface antigen. Clone B199.2 recognises a similar epitope to the DX9 monoclonal antibody.
Formulation:	PBS, pH 7.4 State: Purified State: Liquid purified IgG fraction. Preservative: 0.09% Sodium Azide
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein G.
Conjugation:	Unconjugated
Storage:	Store the antibody 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
Database Link:	Entrez Gene 3820 Human Q12918



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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.

CD161 is expressed by almost all NK cells and with a small subset of CD3+ve T cells. CD161 is a homodimeric cell surface protein, comprising two chains of 40-44kD.

Synonyms:

HNKR-P1a, CLEC5B, NKRP1A