





KLRB1 Monoclonal Antibody (B199.2)

Catalog Number MA1-81379 Product data sheet

Details	
Size	100 μg
Host/Isotope	Mouse / IgG1
Class	Monoclonal
Туре	Antibody
Clone	B199.2
Immunogen	Proprietary Immunogen.
Conjugate	Unconjugated
Form	Liquid
Concentration	1 mg/mL
Purification	Protein A
Storage buffer	PBS
Contains	0.09% sodium azide
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

Species Reactivity	
Species reactivity	Human
Tested Applications	Dilution *
Flow Cytometry (Flow)	1:50-1:100
Immunohistochemistry (Frozen) (IHC (F))	Assay-dependent
Immunoprecipitation (IP)	Assay-dependent

^{*} Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

Product specific information

For FACS analysis, use 10 μL of the suggested working dilution to label 1x10⁶ cells in 100 μL. Mouse anti Human CD161 antibody, clone B199.2 recognizes the human Killer cell lectin-like receptor subfamily B member 1, also known as CD161, C-type lectin domain family 5 member B, HNKR-P1a, NKR-P1A or Natural killer cell surface protein P1A.

Background/Target Information

KLRB1 (Killer cell lectin like receptor subfamily B, member 1, CD-161) protein is classified as a type II membrane protein because it has an external C terminus. KLRB1 cell surface antigen is expressed by almost all NK cells and in a small subset of CD3+ve T cells. KLRB1 is a homodimeric cell surface protein, comprising two chains with molecular weights ranging from 40-44kDa. KLRB1 plays an inhibitory role on natural killer (NK) cells. Activation of KLRB1 leads to acid sphingomyelnase/SMPD1 stimulation and an increase in intracellular ceramide. Moreover, there is also an activation of AKT1/PKB and RPS6KA1/RSK1 kinase stimulation, and T cell proliferation by anti-CD3. KLRB1 acts as a lectin that binds to the terminal carbohydrate Gal-alpha (1,3)Gal epitope and to the N-acetyllactosamine epitope. KLRB1 also binds to CLEC2D/LLT1 as a ligand, and inhibits NK cell-mediated cytotoxicity as well as interferon-gamma secretion in target cells. The KLRB1 protein contains an extracellular domain with several motifs characteristic of C-type lectins, a transmembrane domain, and a cytoplasmic domain.

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