

CD161 (PTF0104) Mouse mAb

CatalogNo: YF0115 **Recombinant** 

Key Features

Host Species

- Mouse

Reactivity

- Human

Applications

- FC,IF

Isotype

- Mouse IgG1/Kappa

Storage

Storage*

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

Formulation

PBS, pH 7.4

Recommended Dilution Ratios

IF 1:200-1:1000

FC:1 µg per million cells in 100 µl volume. For optimal results, the reagent should be titrated according to each specific application

Basic Information

Clonality

Monoclonal

Clone Number

PTF0104

Immunogen Information

Specificity

Endogenous

Target Information

Gene name KLRB1 CLEC5B NKR-P1A

Protein Name Killer cell lectin-like receptor subfamily B member 1 (C-type lectin domain family 5 member B) (HNKR-P1a) (NKR-P1A) (Natural killer cell surface protein P1A) (CD antigen CD161)

Organism	Gene ID	UniProt ID
Human	4072 ;	Q12918 ;

Cellular Localization Membrane ; Single-pass type II membrane protein .

Tissue specificity Expressed in a subset of NK cells predominantly in intestinal epithelium and liver. Detected in peripheral blood T-cells and preferentially in adult T-cells with a memory antigenic phenotype.

Function Plays an inhibitory role on natural killer (NK) cells cytotoxicity. Activation results in specific acid sphingomyelinase/SMPD1 stimulation with subsequent marked elevation of intracellular ceramide. Activation also leads to AKT1/PKB and RPS6KA1/RSK1 kinases stimulation as well as markedly enhanced T-cell proliferation induced by anti-CD3. Acts as a lectin that binds to the terminal carbohydrate Gal-alpha(1,3)Gal epitope as well as to the N-acetylglucosamine epitope. Binds also to CLEC2D/LLT1 as a ligand and inhibits NK cell-mediated cytotoxicity as well as interferon-gamma secretion in target cells.,induction:By IL12 in NK cells.,online information:NKR-P1,PTM:N-glycosylated. Contains sialic acid residues.,similarity:Contains 1 C-type lectin domain.,subunit:Homodimer; disulfide-linked. Interacts with acid sphingomyelinase/SMPD1.,tissue specificity:Expressed in a subset of NK cells predominantly in intestinal epithelium and liver. Detected in peripheral blood T-cells and preferentially in adult T-cells with a memory antigenic phenotype.,

Validation Data



Human peripheral blood lymphocytes stained with Mouse IgG1, kappa isotype control or purified CD161 (PTF0104) , followed by anti-mouse IgGs-PE.

Contact information

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CD161 (PTF0104)
Mouse mAb