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CD161 Recombinant Rabbit mAb

Catalog # AP98690

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q12918
Other Accession	Q12918
Reactivity	Human
Host	Rabbit
Clonality	Recombinant
Calculated MW	25415
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 C-type lectin domain.
SUBUNIT	Contains 1 C-type lectin domain.
Post-translational modifications	N-glycosylated. Contains sialic acid residues.
Background Descriptions	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 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. [provided by RefSeq, Jul 2008],

Additional Information

Gene ID	3820
Other Names	CD161; CLEC5B; NKR; NKR-P1; NKR-P1A; NKRP1A; hNKR-P1A; KLRB1_HUMAN; KLRB1; C-type lectin domain family 5 member B; HNKR-P1a (NKR-P1A); Natural killer cell surface protein P1A; killer cell lectin like receptor B1; killer cell lectin-like receptor subfamily B, member 1; Killer cell lectin-like receptor subfamily B member 1
Dilution	IHC-P=1:50-200,IHC-F=1:50-200,IF=1:50-200,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	KLRB1
Synonyms	CLEC5B, NKRP1A
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- acetyllactosamine epitope. Also binds to CLEC2D/LLT1 as a ligand and inhibits NK cell-mediated cytotoxicity as well as interferon-gamma secretion in target cells.
Cellular Location	Membrane; Single-pass type II membrane protein
Tissue Location	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

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