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CD161

Purified Mouse Monoclonal Antibody
Catalog # AO2744a

Product Information

Application	WB, IHC, ICC, E
Primary Accession	Q12918
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	4C6A11
Isotype	Mouse IgG2b
Calculated MW	25415
Immunogen	Purified recombinant fragment of human CD161 (AA: extra 67-225) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide

Additional Information

Gene ID	3820
Other Names	KLRB1; NKR; CLEC5B; NKR-P1; NKRP1A; NKR-P1A; hNKR-P1A
Dilution	WB~~ 1/500 - 1/2000 IHC~~1:100~500 ICC~~N/A E~~ 1/10000
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	CD161 is for research use only and not for use in diagnostic or therapeutic procedures.

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

References

1.Biol Blood Marrow Transplant. 2015 Mar;21(3):421-8.2.Cell Immunol. 2011;269(2):74-7.

Images

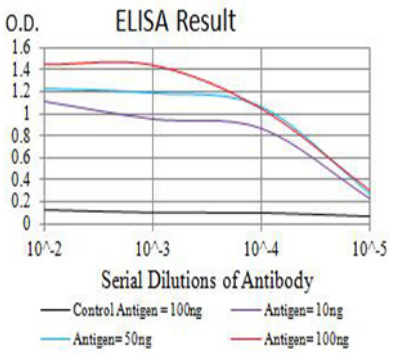


Figure 1:Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

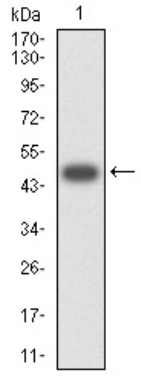


Figure 2:Western blot analysis using CD161 mAb against human CD161 (AA: extra 67-225) recombinant protein. (Expected MW is 48.4 kDa)

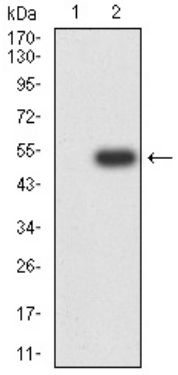
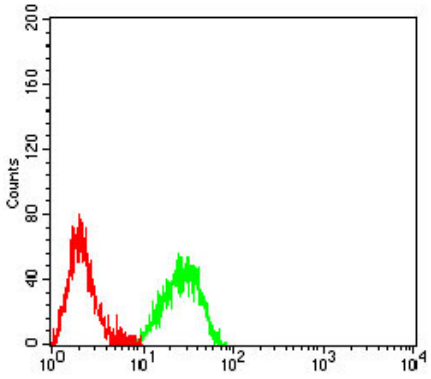


Figure 3:Western blot analysis using CD161 mAb against HEK293 (1) and CD161 (AA: extra 67-225)-hIgGFc transfected HEK293 (2) cell lysate.

Figure 4:Flow cytometric analysis of Raji cells using CD161 mouse mAb (green) and negative control (red).



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.