

CD21 (ABT-CD21) mouse mAb

Catalog No :	YM4589
Reactivity :	Human;
Applications :	IHC;WB;IF;ELISA
Target :	CD21
Fields :	>>Complement and coagulation cascades;>>Hematopoietic cell lineage;>>B cell receptor signaling pathway;>>Epstein-Barr virus infection
Gene Name :	CR2 C3DR
Protein Name :	Complement receptor type 2 (Cr2) (Complement C3d receptor) (Epstein-Barr virus receptor) (EBV receptor) (CD antigen CD21)
Human Gene Id :	1380
Human Swiss Prot No :	P20023
Immunogen :	Synthesized peptide derived from human CD21 AA range: 400-500
Specificity :	The antibody can specifically recognize human CD21 protein.
Formulation :	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source :	Mouse, Monoclonal/IgG1, kappa
Dilution :	IHC 1:200-1000. WB 1:500-2000. IF 1:100-500. ELISA 1:1000-5000
Purification :	Protein G
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	113kD
Observed Band :	160kD

Cell Pathway : Complement and coagulation cascades;Hematopoietic cell lineage;B_Cell_Antigen;

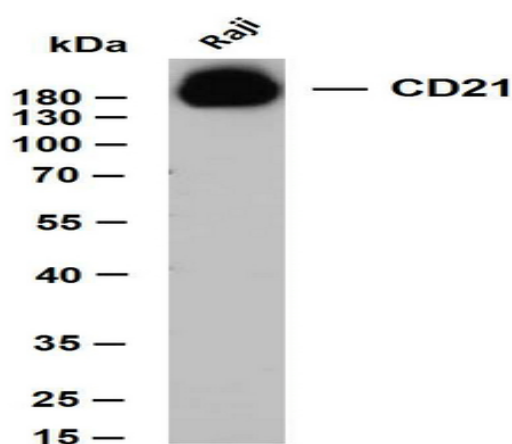
Background : CD21, also known as type 2 complement receptor, is an important marker of B lymphocytes and EB virus receptor. It is a member of the complement activation regulator family. CD21 is mainly distributed in mature B cells, dendritic cells in lymphoid follicles and some T cells. It can promote the proliferation of B cells, participate in immune memory and mediate the transformation of EBV into B cells. It is mainly used for the diagnosis of follicular dendritic cell tumor and the study of immune complement activation regulation.

Function : disease:Genetic variations in CR2 are associated with susceptibility to systemic lupus erythematosus type 9 (SLEB9) [MIM:610927]. Systemic lupus erythematosus (SLE) is a chronic autoimmune disease with a complex genetic basis. SLE is an inflammatory, and often febrile multisystemic disorder of connective tissue characterized principally by involvement of the skin, joints, kidneys, and serosal membranes. It is thought to represent a failure of the regulatory mechanisms of the autoimmune system.,function:Receptor for complement C3Dd, for the Epstein-Barr virus on human B-cells and T-cells and for HNRPU. Participates in B lymphocytes activation.,similarity:Belongs to the receptors of complement activation (RCA) family.,similarity:Contains 15 Sushi (CCP/SCR) domains.,tissue specificity:Mature B-lymphocytes, T-lymphocytes, pharyngeal epithelial cells, astrocytes and follicular dendritic cells

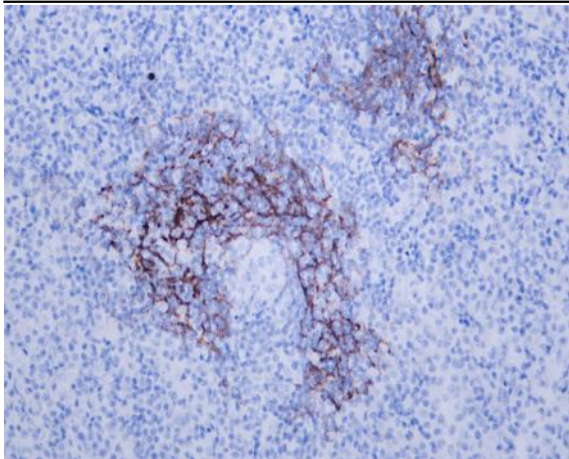
Subcellular Location : Membranous

Expression : Mature B-lymphocytes, T-lymphocytes, pharyngeal epithelial cells, astrocytes and follicular dendritic cells of the spleen.

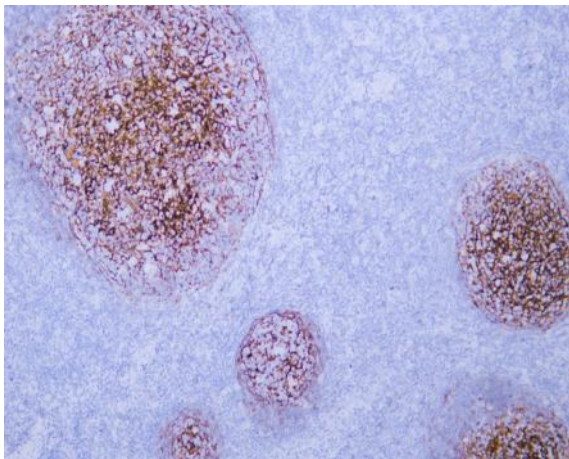
Products Images



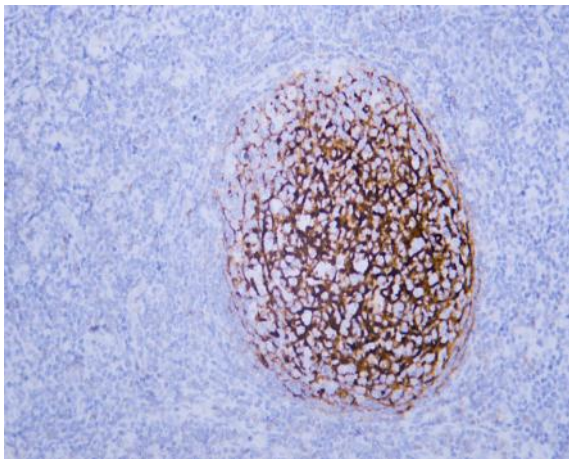
Whole cell lysates were separated by 10% SDS-PAGE, and the membrane was blotted with anti-CD21 (ABT-CD21) antibody. The HRP-conjugated Goat anti-Mouse IgG(H + L) antibody was used to detect the antibody. Lane 1: Raji



Human diffuse large B-cell lymphoma tissue was stained with Anti-CD21 (ABT-CD21) Antibody



Human tonsil tissue was stained with anti-CD21 (ABT-CD21) antibody.



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