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Anti-CD21 Antibody

Catalog # AP61605

Product Information

Application	IHC
Primary Accession	P20023
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	112916

Additional Information

Gene ID	1380
Other Names	C3DR; Complement receptor type 2; Cr2; Complement C3d receptor; Epstein-Barr virus receptor; EBV receptor; CD21
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within human CD21. The exact sequence is proprietary.
Dilution	IHC~~1:100~500
Format	Mouse IgG1. Liquid in PBS containing 50% glycerol, 0.2% BSA and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	CR2
Synonyms	C3DR
Function	Serves as a receptor for various ligands including complement component CD3d, HNRNPU OR IFNA1 (PubMed:1849076, PubMed:21527715, PubMed:7753047). When C3d is bound to antigens, attaches to C3d on B- cell surface and thereby facilitates the recognition and uptake of antigens by B-cells (PubMed:21527715). This interaction enhances B-cell activation and subsequent immune responses. Forms a complex with several partners on the surface of B-cells including CD19, FCRL5 and CD81, to form the B-cell coreceptor complex that plays a crucial role in B-cell activation and signaling (PubMed:1383329, PubMed:30107486). Also induces specific intracellular signaling separately from the BCR and CD19 by activating the tyrosine kinase SRC, which then phosphorylates nucleolin/NCL and triggers AKT and GSK3 kinase activities in a SYK/CD19-independent manner (PubMed:12938232). Acts as a ligand for CD23 (FcepsilonRII), a low-affinity receptor for IgE, which is

	expressed on B-cells and other immune cells, and thus participates in the regulation of IgE production (PubMed:1386409).
Cellular Location	Cell membrane; Single-pass type I membrane protein
Tissue Location	Mature B-lymphocytes, T-lymphocytes, pharyngeal epithelial cells, astrocytes and follicular dendritic cells of the spleen

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