

**CD21 Antibody**  
**Rabbit mAb**  
**Catalog # AP90713****Specification****CD21 Antibody - Product Information**

Application	WB, IHC, FC, ICC, IP
Primary Accession	<a href="#">P20023</a>
Clonality	Monoclonal
<b>Other Names</b>	
CR2; C3DR; CD21 antigen; CVID7; Complement receptors type 2; CD21; Complement C3d receptor; EBV receptor; SLEB9; Complement receptor type 2; CR; Epstein-Barr virus receptor;	
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	112916 Da

**CD21 Antibody - Additional Information**

Dilution	WB~~1:1000 IHC~~1:100~500 FC~~1:10~50 ICC~~N/A IP~~N/A
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human CD21
Description	Receptor for complement C3Dd, for the Epstein-Barr virus on human B-cells and T-cells and for HNRPU. Participates in B lymphocytes activation. (Microbial infection) Acts as a receptor for Epstein-Barr virus.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

**CD21 Antibody - Protein Information****Name** CR2**Synonyms** C3DR**Function**

Serves as a receptor for various ligands including complement component CD3d, HNRNPU OR IFNA1 (PubMed:<a href="http://www.uniprot.org/citations/1849076" target="\_blank">1849076</a>, PubMed:<a href="http://www.uniprot.org/citations/21527715"

target="\_blank">21527715</a>, PubMed:<a href="http://www.uniprot.org/citations/7753047" target="\_blank">7753047</a>). 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:<a href="http://www.uniprot.org/citations/21527715" target="\_blank">21527715</a>). 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:<a href="http://www.uniprot.org/citations/1383329" target="\_blank">1383329</a>, PubMed:<a href="http://www.uniprot.org/citations/30107486" target="\_blank">30107486</a>). 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:<a href="http://www.uniprot.org/citations/12938232" target="\_blank">12938232</a>). Acts as a ligand for CD23 (FcεpsilonRII), 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:<a href="http://www.uniprot.org/citations/1386409" target="\_blank">1386409</a>).

#### **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

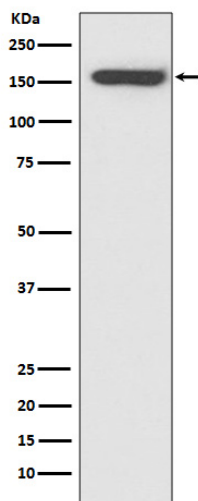
#### **CD21 Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### **CD21 Antibody - Images**





Western blot analysis of CD21 expression in Raji cell lysate.