

**CD21 Rabbit mAb**  
Catalog # AP77518**Specification****CD21 Rabbit mAb - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">P20023</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	112916

**CD21 Rabbit mAb - Additional Information**

Gene ID 1380

**Other Names**

CR2

**Dilution**

WB~~1/500-1/1000

IHC~~1/50-1/100

**Format**

Liquid

**CD21 Rabbit mAb - Protein Information**

Name CR2

Synonyms C3DR

**Function**

Serves as a receptor for various ligands including complement component CD3d, HNRNPU OR IFNA1 (PubMed: [1849076](http://www.uniprot.org/citations/1849076)), PubMed: [21527715](http://www.uniprot.org/citations/21527715), PubMed: [7753047](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/1383329), PubMed: [30107486](http://www.uniprot.org/citations/30107486)). Induces also 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](http://www.uniprot.org/citations/12938232))

target="\_blank">12938232</a>). Acts as a ligand for CD23 (FcεRII), 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 Rabbit mAb - 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 Rabbit mAb - Images



