

CR2 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP6965b**Specification**

CR2 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [P20023](#)**CR2 Antibody (C-term) Blocking Peptide - Additional Information**

Gene ID 1380

Other Names

Complement receptor type 2, Cr2, Complement C3d receptor, Epstein-Barr virus receptor, EBV receptor, CD21, CR2, C3DR

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP6965b](/products/AP6965b) was selected from the C-term region of human CR2. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

CR2 Antibody (C-term) Blocking Peptide - Protein Information

Name CR2

Synonyms C3DR

Function

Serves as a receptor for various ligands including complement component CD3d, HNRNPU OR IFNA1 (PubMed: <http://www.uniprot.org/citations/1849076> target="_blank">1849076, PubMed: <http://www.uniprot.org/citations/21527715> target="_blank">21527715, PubMed: <http://www.uniprot.org/citations/7753047> target="_blank">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: <http://www.uniprot.org/citations/21527715> target="_blank">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). 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). 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

CR2 Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

CR2 Antibody (C-term) Blocking Peptide - Images**CR2 Antibody (C-term) Blocking Peptide - Background**

CR2 is a membrane protein, which functions as a receptor for Epstein-Barr virus (EBV) binding on B and T lymphocytes.

CR2 Antibody (C-term) Blocking Peptide - References

Rikova,K., et.al., Cell 131 (6), 1190-1203 (2007)