

CR2 / CD21 Antibody (clone 2G9)
Mouse Monoclonal Antibody
Catalog # ALS13870**Specification**

CR2 / CD21 Antibody (clone 2G9) - Product Information

Application	IHC-P
Primary Accession	P20023
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	113kDa KDa
Dilution	IHC-P~~N/A

CR2 / CD21 Antibody (clone 2G9) - 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

Extracellular domain

Reconstitution & Storage

Stable for 24 months when stored at 2-8°C.

Precautions

CR2 / CD21 Antibody (clone 2G9) is for research use only and not for use in diagnostic or therapeutic procedures.

CR2 / CD21 Antibody (clone 2G9) - 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

Volume

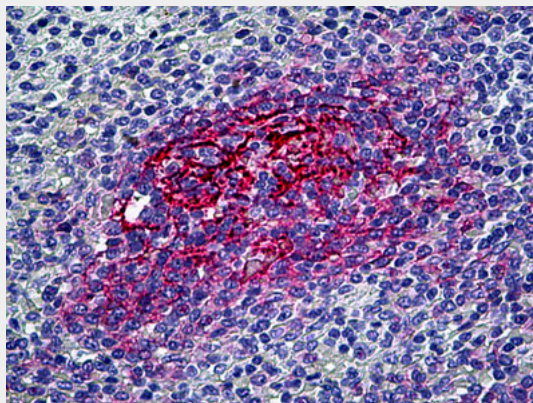
250 µl

CR2 / CD21 Antibody (clone 2G9) - 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](#)

CR2 / CD21 Antibody (clone 2G9) - Images



Anti-CR2 / CD21 antibody IHC of human spleen.

CR2 / CD21 Antibody (clone 2G9) - Background

Receptor for complement C3Dd, for the Epstein-Barr virus on human B-cells and T-cells and for HNRPU. Participates in B lymphocytes activation.

CR2 / CD21 Antibody (clone 2G9) - References

Fujisaku A., et al. J. Biol. Chem. 264:2118-2125(1989).
Weis J.J., et al. J. Exp. Med. 167:1047-1066(1988).
Moore M., et al. Proc. Natl. Acad. Sci. U.S.A. 84:9194-9198(1987).
Barel M., et al. Mol. Immunol. 35:1025-1031(1998).
Ota T., et al. Nat. Genet. 36:40-45(2004).