

# Anti-CD21L [R4/23] rAb

**Catalogue number:** 154810

**Sub-type:** Primary antibody

**Images:**

## Contributor

**Inventor:**

**Institute:** Absolute Antibody; University of Oxford

**Images:**

## Tool details

**\*FOR RESEARCH USE ONLY**

**Name:** Anti-CD21L [R4/23] rAb

**Alternate name:** Complement Component (3d/Epstein Barr Virus) Receptor 2; Epstein-Barr Virus Receptor 2; Complement C3d Receptor 3; EBV Receptor 3; C3DR 3; CD21 Antigen; CVID7; SLEB9; CD21; Cr2

**Class:** Recombinant

**Conjugate:** Unconjugated

**Description:** CR2 is expressed strongly on mature B cells, follicular dendritic cells and weakly on immature thymocytes and T lymphocytes. CR2 functions as a receptor for C3d, C3dg and iC3b Complement components and for EBV and for IFN alpha. Follicular dendritic cells (contained in B cell follicles) selectively express the  $\alpha_2\beta_2$  isoform of CR2 (CD21L) that contains an additional exon (10a) compared to CR2 (CD21). R4/23 recognises the long form of CR2 and can be used to identify dendritic reticulum cells (or their remnants) in lymphoid tissues.

**Purpose:**

**Parental cell:**

**Organism:**

**Tissue:**

**Model:**

**Gender:**

**Isotype:** IgM

**Reactivity:** Human

**Selectivity:**

**Host:** Mouse

**Immunogen:** Cell lysate from a chronic lymphocytic leukemia patient.

**Immunogen UNIPROT ID:**

**Sequence:**

**Growth properties:**

**Production details:**  
**Formulation:**  
**Recommended controls:**  
**Bacterial resistance:**  
**Selectable markers:**  
**Additional notes:**

## Target details

**Target:** Complement component (3d/Epstein Barr virus) receptor 2; long form (CR2, CD21L)

**Target alternate names:**

**Target background:** CR2 is expressed strongly on mature B cells, follicular dendritic cells and weakly on immature thymocytes and T lymphocytes. CR2 functions as a receptor for C3d, C3dg and iC3b Complement components and for EBV and for IFN alpha. Follicular dendritic cells (contained in B cell follicles) selectively express the Long isoform of CR2 (CD21L) that contains an additional exon (10a) compared to CR2 (CD21). R4/23 recognises the long form of CR2 and can be used to identify dendritic reticulum cells (or their remnants) in lymphoid tissues.

**Molecular weight:**

**Ic50:**

## Applications

**Application:** WB  
**Application notes:**

## Handling

**Format:** Liquid  
**Concentration:**  
**Passage number:**  
**Growth medium:**  
**Temperature:**  
**Atmosphere:**  
**Volume:**  
**Storage medium:**  
**Storage buffer:**  
**Storage conditions:**  
**Shipping conditions:** Shipping at 4° C

## Related tools

**Related tools:**

## References

**References:** Ammon et al. 2000. Immunology. 100(3):364-9. PMID: 10929059. ; Bilsland et al. 1994. J Immunol. 152(9):4582-9. PMID: 7512600. ; Comparative analysis of integrin expression on monocyte-derived macrophages and monocyte-derived dendritic cells. ; Ihanus et al. 2007. Blood. 109(2):802-10. PMID: 16985175. ; Myones et al. 1988. J Clin Invest. 82(2):640-51. PMID: 2969921. ; Neutrophil and monocyte cell surface p150,95 has iC3b-receptor (CR4) activity resembling CR3. ; Red-cell ICAM-4 is a ligand for the monocyte/macrophage integrin CD11c/CD18: characterization of the binding sites on ICAM-4. ; The leukocyte integrin p150,95 (CD11c/CD18) as a receptor for iC3b. Activation by a heterologous beta subunit and localization of a ligand recognition site to the I domain.

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