

CD21 (GM75)

Format	Catalog No.	Pack size	Dilution
Concentrated	G2385 A, B, C	0.1, 0.5, 1.0 ml	1:100
Prediluted	G2385 AA, BB	6.0, 3.0 ml	Ready to use

SPECIES: Mouse

IMMUNOGEN: Recombinant human CR2 (CD21) protein fragment (around aa 44-196)

CLONE: GM75

ISOTYPE: IgG1 / Kappa

FORMAT: This antibody has been pretitered and quality controlled to work on formalin-fixed paraffin-embedded as well as acetone fixed cryostat tissue sections. No further titration is required.

INTENDED USE: For Research Use Only.

BACKGROUND: recognises a 140 kDa protein known as complement receptor 2 (CR2)/CD21. Mature B cells and follicular dendritic cells have substantial expression of this protein, whereas immature T lymphocytes and thymocytes exhibit minimal expression. CD21 emerges after the pre-B-stage, persists throughout peripheral B-cell development, and disappears upon terminal differentiation into plasma cells in B-cell ontogeny. Additionally, CD21 expression steadily declines following B cell activation in vitro. CD21 serves as a receptor for EBV, IFN alpha, and the complement components C3d, C3dg, and iC3b. In order to create a sizable signal-transduction complex involved in B cell activation, CD21 attaches to CD23 and joins forces with CD19, CD81, and Leu13.

SPECIES REACTIVITY : Human

POSITIVE CONTROL : Tonsil, lymph node

CELLULAR LOCALIZATION : Cell membrane

MICROBIOLOGICAL STATE : Non-sterile product; store according to recommended guidelines.

RECOMMENDED USAGE:

- **Immunohistochemistry (IHC):** 1–2 µg/ml
 - Requires Tris-EDTA (pH 9.0) antigen retrieval at 95°C for 45 min, followed by cooling for 20 min at RT
- **Immunofluorescence (IF):** 1–3 µg/ml
- **Storage Conditions:** 1–3 µg/ml
 - With azide: 2–8°C
 - Without azide: –20 to –80°C
- **Stability:** 24 months



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LIMITATIONS AND USES:

1. Contains 0.05% sodium azide – handle with care
2. Avoid skin and mucosal contact
3. Not intended for diagnostic or therapeutic use

STABILITY AND STORAGE –

Avoid freezing. Keep between 2 and 8°C. After use, immediately return to 2–8°C. Never use after the label's stated expiration date. Before using the antibody, visually confirm that it hasn't been contaminated. If the reagent precipitates or gets hazy, do not use it.

RESTRICTIONS–

Histological and immunological detection techniques are both used in the intricate process of immunohistochemistry. Results from tissue handling and processing before immunostaining can vary. Results may differ depending on the intrinsic characteristics of the tissue samples or on differences in fixation and embedding. Depending on the detection method employed, endogenous biotin and endogenous peroxidase or pseudoperoxidase activity in erythrocytes may result in non-specific staining. The methods and suggestions in this data sheet were verified with Genebio IHC reagents and might not work with other detection systems.

TECHNICAL SUPPORT

For technical assistance, please contact Genebio Solution's Technical Support at www.genebiosolution.com



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