

Anti-CD21 [THB-5] Bulk Size Ab01121-2.3-BT

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

Isotype and Format: Mouse IgG2a, [Fc Silent™](#), Kappa

Clone Number: THB-5

Alternative Name(s) of Target: CR2; Complement receptor type 2; ; complement C3d receptor;C3dR; C3DR; Epstein-Barr virus receptor; EBV receptor; cluster of differentiation 21; THB 5

UniProt Accession Number of Target Protein: P20023

Published Application(s): FC, IF

Published Species Reactivity: Human

Immunogen: This antibody was raised by immunising BALB/c mice with human B cells of the SB line. Spleen cells were then removed and fused with Ag8.653 myeloma cells, to produce stable hybridomas.

Specificity: This antibody is specific for human CD21 (complement receptor type 2), which is expressed on B-cells and participates in B cell activation. It recognises a distinct antigenic site to the anti-B2 antibody (Tedder et al, 1984).

Application Notes: The binding specificity of this antibody has been confirmed in flow cytometry and immunofluorescence analysis (Tedder et al, 1984), with only B cell reactivity observed. Though this antibody binds to CD21, which acts as a receptor for Epstein-Barr virus (EBV), it cannot alone block viral entry into B cells (Fingeroth et al, 1984). EBV virions engineered to express this antibody at their surface have been used to probe the need for CD21 binding to achieve viral entry (Busse et al, 2010).

Antibody First Published in: Tedder et al. Expression of C3d receptors during human B cell differentiation: immunofluorescence analysis with the HB-5 monoclonal antibody *Journal of immunology*,1984, 133(2): 678-83 [PMID:6234356](#)

Note on publication: Describes the original generation of this antibody, and its use in FC and IF analysis.

Product Form

Size: 1 mg Purified antibody in bulk size.

Purification: Protein A affinity purified

Supplied In: PBS only.

Storage Recommendation: Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. For longer

storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.