

Datasheet

CR2 monoclonal antibody, clone LT21 (FITC)

Catalog Number: MAB4390

Regulatory Status: For research use only (RUO)

Product Description: Mouse monoclonal antibody raised against native CR2.

Clone Name: LT21

Immunogen: Native purified CR2 from human B-lymphoblastoid cell line IM9.CR2.

Host: Mouse

Theoretical MW (kDa): 145

Reactivity: Bovine, Human, Pig

Applications: Flow Cyt

(See our web site product page for detailed applications information)

Protocols: See our web site at

<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

Specificity: This antibody reacts with CD21 (CR2), a 145 kDa transmembrane glycoprotein (complement C3d receptor - C3dR) expressed on B lymphocytes, follicular dendritic cells, some epithelial cells and a subsets of T lymphocytes. It is not expressed on immature B cells.

Form: Liquid

Conjugation: FITC

Isotype: IgG1

Recommend Usage: Flow Cytometry (20 ul in human blood cells 100 ul in whole blood or 10⁶ cells in a suspension)

The optimal working dilution should be determined by the end user.

Storage Buffer: In PBS (0.2% BSA, 0.09% sodium azide)

Storage Instruction: Store in the dark at 4 °C. Do not freeze.

Avoid prolonged exposure to light.

Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 1380

Gene Symbol: CR2

Gene Alias: C3DR, CD21, SLEB9

Gene Summary: Complement component receptor-2 (CR2) is the membrane protein on B lymphocytes to which the Epstein-Barr virus (EBV) binds during infection of these cells. See also CR1 (MIM 120620). Yefenof et al. (1976) [PubMed 181330] found complete overlapping of EBV receptors and C3 (MIM 120700) receptors on human B lymphocytes.[supplied by OMIM]

References:

1. Antiphospholipid syndrome patients display reduced titers of soluble CD21 in their sera irrespective of circulating anti-beta2-glycoprotein-I autoantibodies. Singh A, Blank M, Shoenfeld Y, Illges H. Rheumatol Int. 2008 May;28(7):661-5. Epub 2008 Jan 3.
2. Stromal complement receptor CD21/35 facilitates lymphoid prion colonization and pathogenesis. Zabel MD, Heikenwalder M, Prinz M, Arrighi I, Schwarz P, Kranich J, von Teichman A, Haas KM, Zeller N, Tedder TF, Weis JH, Aguzzi A. J Immunol. 2007 Nov 1;179(9):6144-52.
3. Cross-reactive anti-human monoclonal antibodies as a tool for B-cell identification in dogs and pigs. Faldyna M, Samankova P, Leva L, Cerny J, Oujezdska J, Rehakova Z, Sinkora J. Vet Immunol Immunopathol. 2007 Sep 15;119(1-2):56-62. Epub 2007 Jun 26.