

CR2 monoclonal antibody, clone LT21 (FITC)

Catalog # MAB4390

Size 100 Reactions

Specification

Product Description	Mouse monoclonal antibody raised against native CR2.
Immunogen	Native purified CR2 from human B-lymphoblastoid cell line IM9.CR2.
Host	Mouse
Theoretical MW (kDa)	145
Reactivity	Bovine, Human, Pig
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 subset 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 10^6 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.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Flow Cytometry

Gene Info — CR2

Entrez GeneID	1380
Gene Name	CR2
Gene Alias	C3DR, CD21, SLEB9
Gene Description	complement component (3d/Epstein Barr virus) receptor 2
Omim ID	120650 610927
Gene Ontology	Hyperlink
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]
Other Designations	OTTHUMP00000034421 OTTHUMP00000034447

Publication Reference

- [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, Ilges H.

Rheumatology International 2008 May; 28(7):661.

- [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.

Journal of Immunology 2007 Nov; 179(9):6144.

Application: Flow Cyt, Mouse, Mouse peripheral blood cells

- [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.

Veterinary Immunology and Immunopathology 2007 Sep; 119(1-2):56.

Application: Flow cyt, Dog, Swine, Peripheral blood leukocytes

Pathway

- [B cell receptor signaling pathway](#)
- [Complement and coagulation cascades](#)
- [Hematopoietic cell lineage](#)

Disease

- [Genetic Predisposition to Disease](#)
- [Lupus Erythematosus](#)
- [Lymphoma](#)
- [Macular Degeneration](#)
- [Nasopharyngeal Neoplasms](#)
- [Parkinson disease](#)