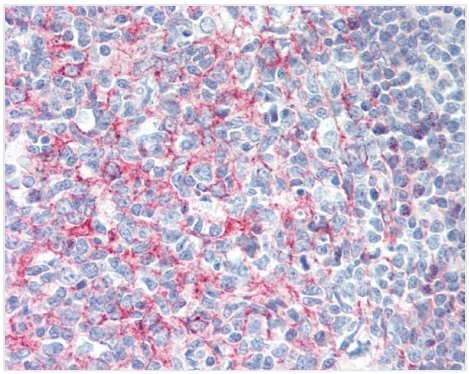
CD21 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	CD21, Monoclonal Antibody
Full Product Name	MOUSE ANTI HUMAN CD21: RPE
Product Gene Name	anti-CD21 antibody
Product Synonym Gene Name	CR2
Product Synonym Names	CR2
Clonality	Monoclonal
Isotype	IgG1
Clone Number	Bu33
Host	Mouse
Species Reactivity	Horse
Form/Format	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized
Purity/Purification	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Preparation and Storage	Prior to reconstitution store at +4 degree C. After reconstitution store at +4 degree C. DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.
OMIM	614699
3D Structure	ModBase 3D Structure for P20023
Target Species	Human
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN3) 1% Bovine Serum Albumin 5% Sucrose
Product Categories/Family for anti-CD21 antibody	Antibodies
Applications Tested/Suitable for anti-CD21 antibody	Flow Cytometry (FC/FACS)
Related Product Information for anti-CD21 antibody	Description: Mouse anti Human CD21, clone Bu33 recognizes human CD21, a ~145 kDa cell surface glycoprotein expressed by mature B lymphocytes, follicular dendritic cells, subsets of normal thymocytes and subsets of T cells. The CD21 molecule acts as a receptor for CD23, for complement components C3d, C3dg and iC3b and for Epstein Barr Virus. CD21 is part of the signalling complex that is linked to CD19, CD81 and phosphatidylinositol-3-kinase.
Other Notes	Small volumes of anti-CD21 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CD21 purchase	MBS226717 is an antibody targeting CD21. Also known as MOUSE ANTI HUMAN CD21: RPE. Reactive in Horse. Host: Mouse.



Immunohistochemistry (IHC) of anti-CD21 antibody
Mouse anti Human CD21 antibody, clone Bu33 used to stain formalin fixed, paraffin embedded human spleen sections by immunohistochemistry, visualized by biotinylated anti Mouse IgG antibody and streptavidin alkaline phosphatase (red). Nuclei were counterstained with hematoxylin (blue).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD21. It may not necessarily be applicable to this product.

NCBI GI #	215273962
NCBI GeneID	1380
NCBI Accession #	P20023.2
UniProt Primary Accession #	P20023
UniProt Related Accession #	P20023
NCBI Official Full Name	Complement receptor type 2
NCBI Official Synonym Full Names	complement C3d receptor 2
NCBI Official Symbol	CR2
NCBI Official Synonym Symbols	CR; C3DR; CD21; CVID7; SLEB9
UniProt Protein Name	Complement receptor type 2
UniProt Synonym Protein Names	Complement C3d receptor; Epstein-Barr virus receptor; EBV receptor; CD_antigen: CD21
Protein Family	Complement receptor
UniProt Gene Name	CR2
UniProt Synonym Gene Names	C3DR; Cr2; EBV receptor
UniProt Entry Name	CR2_HUMAN
NCBI Protein Information	complement receptor type 2
NCBI Summary for CD21	This gene encodes a membrane protein, which functions as a receptor for Epstein-Barr virus (EBV) binding on B and T lymphocytes. Genetic variations in this gene are associated with susceptibility to systemic lupus erythematosus type 9 (SLEB9). Alternatively spliced transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Sep 2009]

UniProt Comments for CD21	CR2: Receptor for complement C3Dd, for the Epstein-Barr virus on human B-cells and T-cells and for HNRPU. Participates in B lymphocytes activation. Genetic variations in CR2 are associated with susceptibility to systemic lupus erythematosus type 9 (SLEB9). Systemic lupus erythematosus (SLE) is a chronic autoimmune disease with a complex genetic basis. SLE is an inflammatory, and often febrile multisystemic disorder of connective tissue characterized principally by involvement of the skin, joints, kidneys, and serosal membranes. It is thought to represent a failure of the regulatory mechanisms of the autoimmune system. Defects in CR2 are the cause of immunodeficiency, common variable, type 7 (CVID7). A primary immunodeficiency characterized by antibody deficiency, hypogammaglobulinemia, recurrent bacterial infections and an inability to mount an antibody response to antigen. The defect results from a failure of B-cell differentiation and impaired secretion of immunoglobulins; the numbers of circulating B cells is usually in the normal range, but can be low. Belongs to the receptors of complement activation (RCA) family. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Receptor, misc.; Membrane protein, integral Chromosomal Location of Human Ortholog: 1q32 Cellular Component: plasma membrane; integral to membrane; receptor complex; external side of plasma membrane Molecular Function: complement binding; protein homodimerization activity; transmembrane receptor activity; complement receptor activity; DNA binding Biological Process: B cell proliferation; complement receptor mediated signaling pathway; B cell differentiation; innate immune response; immune response; complement activation, classical pathway Disease: Systemic Lupus Erythematosus, Susceptibility To, 9; Immunodeficiency, Common Variable, 2; Immunodeficiency, Common Variable, 7
Research Articles on CD21	**1.** Study reported that low CD19/CD21 expression is a general early feature of B cells in systemic lupus erythematosus (SLE) and is associated with an impairment of TLR9 response in these cells. Plasmacytoid dendritic cells from SLE patients that express TLR9, but not CD19, display normal TLR9 function. Thus, decreased CD19/CD21 expression combined with defective TLR9 function may fail to prevent autoreactive B cell death.
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