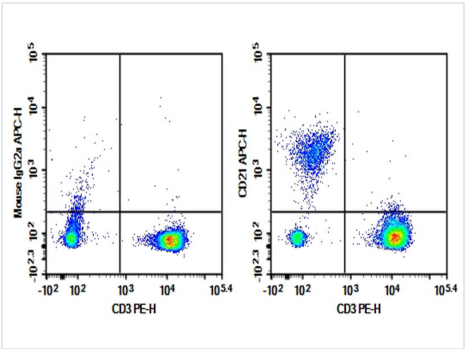
CD21 Antibody – Mouse

PRODUCT OVERVIEW

Product Name	CD21, Antibody
Full Product Name	Purified Anti-Human CD21 Antibody [HI21a]
Product Gene Name	anti-CD21 antibody
Product Synonym Names	CVID; SLEB; Complement receptor type; CR2; C3DR; CD21; CR; CVID7; SLEB9; Complement C3d receptor; Complement receptor type 2; EBV receptor; Epstein-Barr virus receptor; EBV-R; C3dR; CD 21; cluster of differentiation 21; Complement C3d receptor 2; Complement component (3d/Epstein Barr virus) receptor 2; EBV-R; Epstein Barr virus receptor; EVBR
Isotype	IgG2a, kappa
Clone Number	HI21a
Host	Mouse
Species Reactivity	Human
Preparation and Storage	Store at 4 degree C valid for 12 months or -20 degree C valid for long term storage, avoid freeze/thaw cycles.
OMIM	614699
3D Structure	ModBase 3D Structure for P20023
Conjugation	Unconjugated
Product Categories/Family for anti-CD21 antibody	Antibodies and Reagents; Primary Antibodies; Flow Cytometry Antibodies; Immunology
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CD21 antibody	Flow Cytometry (FC/FACS)
Related Product Information for anti-CD21 antibody	MBS2585651 is an antibody targeting CD21. Also known as Purified Anti-Human CD21 Antibody [HI21a]. Reactive in Human. Host: Mouse.
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.



Testing Data of anti-CD21 antibody
Human peripheral blood lymphocytes were stained with 0.2 ?g Purified Anti-Human CD21 Antibody[HI21a] (Right) and 0.2 ?g Mouse IgG2a, ? Isotype Control (Left), followed by APC-conjugated Goat Anti-Mouse IgG Secondary Antibody, then anti-Human CD3 PE-conjugated Monoclonal Antibody.

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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