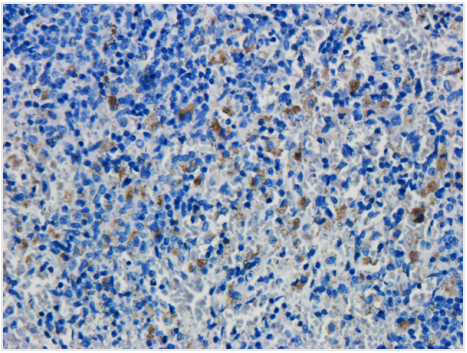
CD19 Recombinant Antibody

PRODUCT OVERVIEW

Product Name	CD19, Recombinant Antibody
Full Product Name	Anti-CD19 [FMC63]
Product Gene Name	CD19 recombinant antibody
Product Synonym Names	B-lymphocyte antigen CD19; B-lymphocyte surface antigen B4; Differentiation antigen CD19 T-cell surface antigen Leu-12; CD19
Isotype	Mouse IgG2a, kappa
Clone Number	FMC63
Species Reactivity	Human
Purity/Purification	Protein A Affinity Purified
Specificity	Binds human CD19.
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.
Molecular Weight	61,200 Da
OMIM	M21097 mRNA
3D Structure	ModBase 3D Structure for P15391
Animal-free Manufacturing Platform	The recombinant antibody is manufactured using a recombinant, mammalian HEK293-based expression platform. The manufacturing platform is animal-free and animal component-free.
Buffer Composition	PBS only with 0.02% Proclin 300.
Immunogen	Human prolymphocytic leukaemia cell line JVM3.
Product Categories/Family for CD19 recombinant antibody	Immunology; Cancer; Gene therapy
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for CD19 recombinant antibody	Immunofluorescence (IF), Flow Cytometry (FC/FACS)
Application Notes for CD19 recombinant antibody	This antibody binds human CD19, a 95 kDa protein expressed on the B-lymphocyte lineage. Recently it has been incorporated into a CD19 scFv- 41BB- CD3zeta fusion protein-encoding lentiviral vector which was used in combination with a UCART19 cell therapy to cure high risk CD19+ infant acute lymphoblastic leukemia.
Related Product Information for CD19 recombinant antibody	Recombinant monoclonal antibody to CD19. Manufactured using a Recombinant Platform with variable regions (i.e. specificity) from the hybridoma FMC63.
Product References and Citations for CD19 recombinant antibody	Hohmann,A.W. Construction and characterisation of a functional CD19 specific single chain Fv fragment for immunotherapy of B lineage leukaemia and lymphoma. Mol. Immunol. 34 (16-17), 1157-1165 PMID:9566763
Other Notes	Small volumes of CD19 recombinant 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 CD19 purchase	MBS488214 is a recombinant antibody targeting CD19. Also known as Anti-CD19 [FMC63]. Reactive in Human.



Immunohistochemistry (IHC) of CD19 recombinant antibody
Immunohistochemical staining of rat spleen tissue using anti-CD19 antibody FMC63. Anti-CD19 staining of formaldehyde fixed paraffin embedded rat spleen tissue, at 40x magnification. The mouse IgG 2A-chimeric version of FMC63 was used to stain samples at a concentration of 3 ug/ml.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD19. It may not necessarily be applicable to this product.

NCBI GI #	160332376
NCBI GeneID	930
UniProt Primary Accession #	P15391
UniProt Secondary Accession #	Q96S68; Q9BRD6; A0N0P9; F5H635
UniProt Related Accession #	P15391
NCBI Official Full Name	B-lymphocyte antigen CD19
NCBI Official Synonym Full Names	CD19 molecule
NCBI Official Symbol	CD19
NCBI Official Synonym Symbols	B4; CVID3
UniProt Protein Name	B-lymphocyte antigen CD19
UniProt Synonym Protein Names	B-lymphocyte surface antigen B4; Differentiation antigen CD19; T-cell surface antigen Leu-12; CD_antigen: CD19
Protein Family	B-lymphocyte antigen
UniProt Gene Name	CD19
UniProt Entry Name	CD19_HUMAN
NCBI Protein Information	B-lymphocyte antigen CD19
NCBI Summary for CD19	Lymphocytes proliferate and differentiate in response to various concentrations of different antigens. The ability of the B cell to respond in a specific, yet sensitive manner to the various antigens is achieved with the use of low-affinity antigen receptors. This gene encodes a cell surface molecule which assembles with the antigen receptor of B lymphocytes in order to decrease the threshold for antigen receptor-dependent stimulation. [provided by RefSeq, Jul 2008]

UniProt Comments for CD19	CD19: a cell surface molecule which assembles with the antigen receptor of B lymphocytes. A critical signal transduction molecule that regulates B lymphocyte development, activation, and differentiation. Ligation increases intracellular calcium levels and decreases the threshold for antigen receptor signaling. Germinal center formation is significantly reduced in CD19-deficient mice. Protein type: Cell surface; Membrane protein, integral Chromosomal Location of Human Ortholog: 16p11.2 Cellular Component: external side of plasma membrane; integral to plasma membrane; plasma membrane; protein complex Molecular Function: phosphatidylinositol-4,5-bisphosphate 3-kinase activity; protein binding; receptor signaling protein activity Biological Process: B cell receptor signaling pathway; cell surface receptor linked signal transduction; cellular defense response; phosphoinositide-mediated signaling; regulation of immune response; regulation of phosphoinositide 3-kinase cascade Disease: Immunodeficiency, Common Variable, 2; Immunodeficiency, Common Variable, 3
Research Articles on CD19	**1.** The frequencies of CD19+CD24hiCD38hi B-regulatory lymphocyte were significantly increased in children with beta-thalassemia.
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