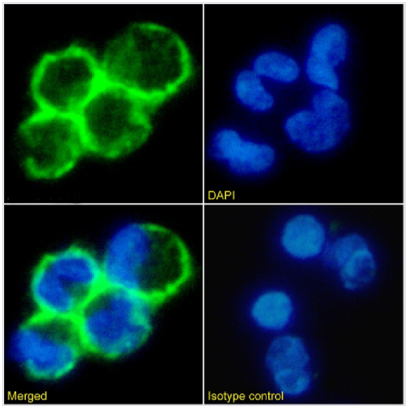
CD19 Antibody – Mouse Monoclonal

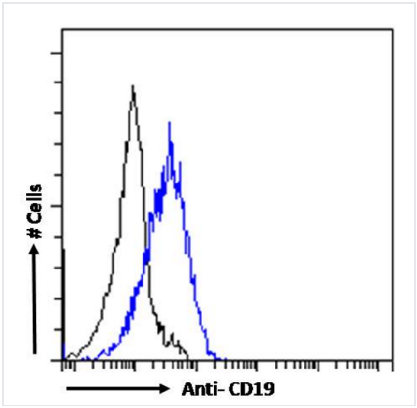
PRODUCT OVERVIEW

Product Name	CD19, Monoclonal Antibody
Full Product Name	Anti-CD19 [CAT-13.1E10]
Product Gene Name	anti-CD19 antibody
Product Synonym Names	Leu12; B-lymphocyte antigen CD19; B-lymphocyte surface antigen B4; Differentiation antigen CD19 T-cell surface antigen Leu-12; CD19; B4; CAT 13.1E10
Clonality	Monoclonal
Isotype	Mouse IgG1, kappa
Clone Number	CAT-13.1E10
Host	Mouse
Species Reactivity	Human
Form/Format	PBS with 0.02% Proclin 300.
Purity/Purification	Purified antibody. Protein A affinity purified
Concentration	1mg/ml (lot specific)
Specificity	CAT 13.1E10 antibody recognizes CD19, which is a transmembrane glycoprotein that regulates B lymphocyte development, activation, and differentiation.
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	61,128 Da
Chromosome Location	Chromosome: 16; NC_000016.9 (28943260..28950668). Location: 16p11.2
OMIM	107265
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.
Product Categories/Family for anti-CD19 antibody	therapeutics research; lymphoma; EBV; Epstein Barr; immunology; cancer
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Application Notes for anti-CD19 antibody	This antibody is recommended for targeting and analysis of B cells. CAT-13.1E10 was used as a part of a fusion molecule aimed at intracellular delivery of BINDI in order to establish a potential treatment method of EBV-positive B lymphoma in a xenograft mouse model (US20160376333A1).
Related Product Information for anti-CD19 antibody	Recombinant monoclonal antibody to CD19. Recombinant Platform with variable regions (i.e. specificity) from the hybridoma CAT-13.1E10. This antibody was raised by immunising mice against CD19.
Product References and Citations for anti-CD19 antibody	Procko et al. University of Washington, 2017. Polypeptides to inhibit epstein barr viral protein BHRF1 and B cell lymphoma family proteins. U.S. Patent 9,750,814. Note on publication: This patent describes the potential therapeurical use of CAT-13.1E10 antibody.
Other Notes	Small volumes of anti-CD19 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	MBS488714 is an antibody targeting CD19. Also known as Anti-CD19 [CAT-13.1E10]. Reactive in Human. Host: Mouse.



Immunofluorescence (IF) of anti-CD19 antibody
Immunofluorescence staining of fixed human peripheral blood leukocytes with anti-CD19 antibody CAT-13.1E10 (MBS488715) Immunofluorescence analysis of paraformaldehyde fixed human peripheral blood leukocytes on Shi-fix coverslips stained with the chimeric rabbit IgG version of CAT-13.1E10 (MBS488715) at 10ug/ml for 1h followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing membrane staining. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom MBS488715, DAPI, merged channels and an isotype control. The isotype control was an unknown specificity antibody (MBS488140) followed by staining with Alexa Fluor 488 secondary antibody.



Flow Cytometry (FC/FACS) of anti-CD19 antibody
Flow cytometry using the Anti-CD19 antibody CAT-13.1E10 (MBS488715). Paraformaldehyde fixed Daudi cells were stained with anti-unknown specificity antibody (MBS488149; isotype control, black line) or the rabbit IgG version of CAT-13.1E10 (MBS488715, blue line) at a dilution of 1:100 for 1h at RT. After washing, the bound antibody was detected using a goat anti-rabbit IgG AlexaFluor 488 antibody at a dilution of 1:1000 and cells analyzed using a FACSCanto flow-cytometer.

ADDITIONAL DETAILS

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

NCBI GI #	296010921
NCBI GeneID	930
NCBI Accession #	NP_001171569.1
UniProt Primary Accession #	P15391
UniProt Secondary Accession #	Q96S68; Q9BRD6; A0N0P9
UniProt Related Accession #	P15391
GenBank Nucleotide #	NM_001178098.1
NCBI Official Full Name	B-lymphocyte antigen CD19 isoform 1
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
Protein Family	B-lymphocyte antigen
UniProt Gene Name	CD19
UniProt Entry Name	CD19_HUMAN
NCBI Protein Information	B-lymphocyte antigen CD19; differentiation antigen CD19; T-cell surface antigen Leu-12; B-lymphocyte surface antigen B4

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: protein complex; integral to plasma membrane; plasma membrane; external side of plasma membrane Molecular Function: receptor signaling protein activity Biological Process: epidermal growth factor receptor signaling pathway; B cell receptor signaling pathway; regulation of immune response; cell surface receptor linked signal transduction; fibroblast growth factor receptor signaling pathway; phosphoinositide-mediated signaling; nerve growth factor receptor signaling pathway; cellular defense response; innate immune response; positive regulation of release of sequestered calcium ion into cytosol Disease: Immunodeficiency, Common Variable, 2; Immunodeficiency, Common Variable, 3
Research Articles on CD19	**1.** The resulting CD19(high)/CD19(low) B-cell ratio increased markedly in the milk-tolerant group.
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