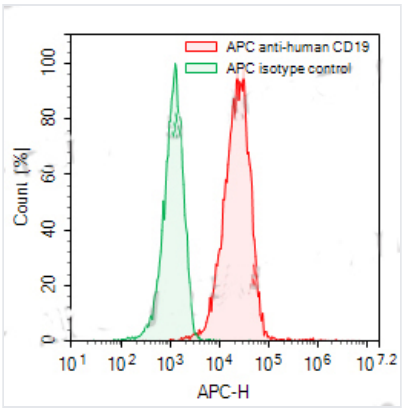
CD19 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	CD19, Monoclonal Antibody
Full Product Name	Anti-Human CD19 Antibody (HD37), APC
Product Gene Name	anti-CD19 antibody
Product Synonym Names	CD19; Differentiation antigen CD19; T-cell surface antigen Leu-12; B-lymphocyte antigen CD19; B-lymphocyte surface antigen B4
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	HD37
Host	Mouse
Species Reactivity	Human
Form/Format	Liquid; 0.01M PBS, pH 7.4, 0.2% BSA, 0.05% Proclin 300.
Concentration	0.5mg/ml (lot specific)
Preparation and Storage	Store at 4 degree C for 12 months. Protect from light. Do not freeze.
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
Conjugation	APC
Product Categories/Family for anti-CD19 antibody	Super-Affinity Antibodies; Flow Cytometry Antibodies
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CD19 antibody	Flow Cytometry (FC/FACS/FCM)
Related Product Information for anti-CD19 antibody	MBS1583353 is an antibody targeting CD19. Also known as Anti-Human CD19 Antibody (HD37), APC. Reactive in Human. Host: Mouse.
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.



Flow Cytometry (FCM/FACS) of anti-CD19 antibody
Flow-cytometry using APC anti-human CD19 antibody. Raji cells were stained with an irrelevant antibody (Green Histogram) or an APC anti-human CD19 antibody monoclonal antibody (#MBS1583353, Red Histogram) at a concentration of 5ug/ml for 30 mins at RT. After washing, cells analysed on a NovoCyte 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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