CD19 Antibody – Rabbit Monoclonal

PRODUCT OVERVIEW

Product Name	CD19, Monoclonal Antibody
Full Product Name	CD19
Product Gene Name	anti-CD19 antibody
Product Synonym Names	B-lymphocyte antigen CD19; B-lymphocyte surface antigen B4; Differentiation antigen CD19; T-cell surface antigen Leu-12; CD_antigen: CD19
Clonality	Monoclonal
Isotype	IgG
Clone Number	JF099-9
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	1*TBS (pH7.4), 1% BSA, 40% Glycerol. 0.05% Sodium Azide.
Purity/Purification	Protein A Affinity Purified
Preparation and Storage	Store at 4 degree C after thawing. Aliquot store at -20 degree C or -80 degree C. Avoid repeated freeze/thaw cycles.
OMIM	107265
3D Structure	ModBase 3D Structure for P15391
Immunogen	Human CD19 aa 200 to the C-terminus
Antibody Type	Recombinant Rabbit Monoclonal Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for anti-CD19 antibody	MBS8565490 is an antibody targeting CD19. Reactive in Human, Mouse, Rat. Host: Rabbit.
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.

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 #	P25918
UniProt Related Accession #	P15391
GenBank Nucleotide #	NP_001171569.1

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
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.** Authors semi-quantitatively classified baseline expression of sCD19 and sCD22 in a large cohort of pediatric B-ALL. Dim CD19 and negative CD22 cases were correlated with common genetic abnormalities.
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