CD23 Antibody – Mouse

PRODUCT OVERVIEW

Product Name	CD23, Antibody
Full Product Name	CD23
Product Gene Name	anti-CD23 antibody
Isotype	IgG1
Clone Number	LVNC-4
Host	Mouse
Form/Format	Provided as solution in phosphate buffered saline with 0.08% sodium azide
Purity/Purification	Protein A/G Chromatography
Preparation and Storage	Product should be stored at -20 degree C. Aliquot to avoid freeze/thaw cycles
Molecular Weight	36,469 Da
Chromosome Location	Chromosome: 19; NC_000019.9 (7753643..7767032, complement). Location: 19p13.3
OMIM	151445
3D Structure	ModBase 3D Structure for P06734
Product Categories/Family for anti-CD23 antibody	Single-Color Reagent; Single Color Markers
Applications Tested/Suitable for anti-CD23 antibody	Flow Cytometry (FC/FACS)
Related Product Information for anti-CD23 antibody	CD23 antigen is an integral membrane glycoprotein, Mr. 45 kdaltons The CD23 antigen is present on approximately all pre-B lymphocytes, plasma cells CD25 positive Ki-1 cells and HLA-DR. CD23 antigen is also expressed on Lymphoma, T Cell Lymphomas and B-CLLs. CD23 antigen is present on Hodgkin?s and Reed Sternberg cells).
Other Notes	Small volumes of anti-CD23 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 CD23 purchase	MBS396542 is an antibody targeting CD23. Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD23. It may not necessarily be applicable to this product.

NCBI GI #	334085205
NCBI GeneID	2208
NCBI Accession #	NP_001193948.2
UniProt Primary Accession #	P06734
UniProt Related Accession #	P06734
GenBank Nucleotide #	NM_001207019.2
NCBI Official Full Name	low affinity immunoglobulin epsilon Fc receptor isoform b

NCBI Official Synonym Full Names	Fc fragment of IgE, low affinity II, receptor for (CD23)
NCBI Official Symbol	FCER2
NCBI Official Synonym Symbols	CD23; FCE2; CD23A; IGEBF; CLEC4J; BLAST-2
UniProt Protein Name	Low affinity immunoglobulin epsilon Fc receptor
UniProt Synonym Protein Names	BLAST-2; C-type lectin domain family 4 member J; Fc-epsilon-RII; Immunoglobulin E-binding factor; Lymphocyte IgE receptor
Protein Family	Low affinity immunoglobulin epsilon Fc receptor
UniProt Gene Name	FCER2
UniProt Synonym Gene Names	CD23A; CLEC4J; FCE2; IGEBF
UniProt Entry Name	FCER2_HUMAN
NCBI Protein Information	low affinity immunoglobulin epsilon Fc receptor; CD23 antigen; fc-epsilon-RII; lymphocyte IgE receptor; immunoglobulin E-binding factor; C-type lectin domain family 4, member J
NCBI Summary for CD23	The protein encoded by this gene is a B-cell specific antigen, and a low-affinity receptor for IgE. It has essential roles in B cell growth and differentiation, and the regulation of IgE production. This protein also exists as a soluble secreted form, then functioning as a potent mitogenic growth factor. Alternatively spliced transcript variants encoding different isoforms have been described for this gene.[provided by RefSeq, Jul 2011]
UniProt Comments for CD23	Function: Low-affinity receptor for immunoglobulin E (IgE) and CR2/CD21. Has essential roles in the regulation of IgE production and in the differentiation of B-cells (it is a B-cell-specific antigen). Subunit structure: Homotrimer. Ref.12 Subcellular location: Cell membrane; Single-pass type II membrane protein. Cell membrane; Lipid-anchor. Secreted. Note: Also exists as a soluble excreted form, sCD23. Ref.8 Ref.9 Post-translational modification: N- and O-glycosylated.The secreted form sCD23 is produced by ADAM10-mediated ectodomain shedding. Miscellaneous: There are two kinds of Fc receptors for IgE, which differ in both structure and function: high affinity receptors on basophils and mast cells and low affinity receptors on lymphocytes and monocytes. Sequence similarities: Contains 1 C-type lectin domain. Sequence caution: The sequence AAA52433.1 differs from that shown. Reason: Erroneous gene model prediction.
Research Articles on CD23	**1.** Downregulation of CD23 attenuated AIMP1-induced TNF-alpha secretion and AIMP1 binding.
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