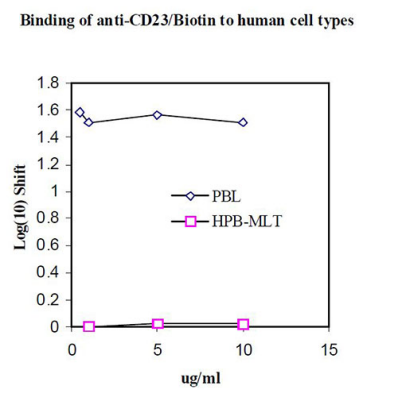
CD23 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	CD23, Monoclonal Antibody
Full Product Name	anti-human CD23-Biotin
Product Gene Name	anti-CD23 antibody
Product Synonym Names	Monoclonal anti-human CD23/Biotin
Clonality	Monoclonal
Isotype	IgG1
Clone Number	BU38
Host	Mouse
Species Reactivity	Human
Form/Format	50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA.
Concentration	1.0 mg/ml (lot specific)
Preparation and Storage	Store at 2 - 5 degree C. Freeze/thawing not recommended. Product should retain activity for at least 12 months after shipping date when stored as recommended.
Molecular Weight	35,126 Da
3D Structure	ModBase 3D Structure for Q63097
Performance	Five x 105 ficoll prepared human peripheral blood mononuclear cells were washed and pre incubated 5 minutes with 20 ul of 300 ug/ml human IgG (to block non specific binding) after which they were washed and incubated 45 minutes on ice with 80 ul of anti-CD23/Biotin at a concentration of 5 ug/ml. Cells were then washed twice and incubated 45 minutes with 2 degree reagent Streptavidin/R-Phycoerythrin, after which they were washed three times, fixed and analyzed by FACS. A net 6.5% sub-population of the cells stained positive with a mean shift of 1.57 log10 fluorescent units when compared to a Mouse IgG1/Biotin negative control at a similar concentration. Binding was blocked when cells were pre incubated 10 minutes with 20 ul of 0.5 mg/ml anti-CD23 antibody.
Conjugation	Biotin
Production	Antibody from (low FBS containing) tissue culture supernatant was Protein A purified to >95% mouse immunoglobulin by SDS-PAGE (<1% bovine immunoglobulin), and reacted with NHS-Biotin. Unconjugated Biotin was removed from conjugate using a desalting column.
Buffer	50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN3 (as a preservative).
Immunogen	Human peripheral myeloma cells
Applications Tested/Suitable for anti-CD23 antibody	Flow Cytometry (FC/FACS), Western Blot (WB), FPS, Agonist
Related Product Information for anti-CD23 antibody	**Information:** Human CD23 is a low affinity receptor for IgE (Fc epsilon RII) found primarily on mature B cells and also on eosinophils, monocytes, dendritic cells, platelets, and a subset of thymic epithelial cells. CD23 interacts with CD21. Antibody BU38 recognizes the CD23 molecule of 45 kd.
Product References and Citations for anti-CD23 antibody	Leukocyte Typing IV (W. Knapp, et al, eds.) Oxford University Press, Oxford, (1989) p. 67-81. D. L. Hardie, et al, (1993) Eur J Immunol 23: 997-1004. Leukocyte Typing V (S.F. Schlossman, et al, eds.) Oxford University Press, Oxford, (1995) p. 530-538. J.Y. Bonnefoy, et al, (1995) Curr Opin Immunol 7: 355-359.

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	MBS666068 is an antibody targeting CD23. Also known as anti-human CD23-Biotin. Reactive in Human. Host: Mouse.



Testing Data of anti-CD23 antibody

ADDITIONAL DETAILS

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

NCBI GI #	313673
NCBI GeneID	171075
NCBI Accession #	CAA51981.1
UniProt Primary Accession #	Q63097
NCBI Official Full Name	CD23
NCBI Official Synonym Full Names	Fc fragment of IgE, low affinity II, receptor for (CD23)
NCBI Official Symbol	Fcer2
NCBI Official Synonym Symbols	CD23; Fcer2a
UniProt Protein Name	CD23 protein
UniProt Synonym Protein Names	CD23 protein
Protein Family	Low affinity immunoglobulin epsilon Fc receptor
UniProt Gene Name	Fcer2
UniProt Entry Name	Q63097_RAT
NCBI Protein Information	low affinity immunoglobulin epsilon Fc receptor; Fcalpha RII; Fcalpha muR; Fc receptor alpha multiple ligand receptor; Fc receptor, IgE, low affinity II, alpha polypeptide
NCBI Summary for CD23	cell surface receptor; binds innumoglobulin (Ig)E and IgA antibodies [RGD, Feb 2006]
Research Articles on CD23	**1.** Immunohistochemical analyses suggested that the Fcalpha/muR isoform was expressed in the tubular epithelial cells, but not in the glomeruli.
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