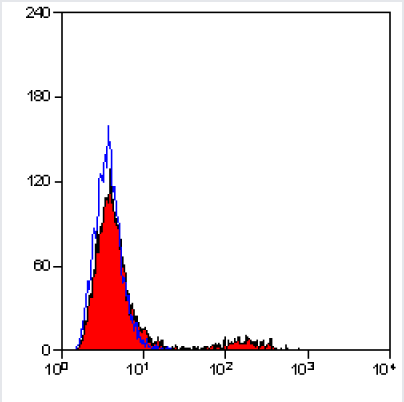
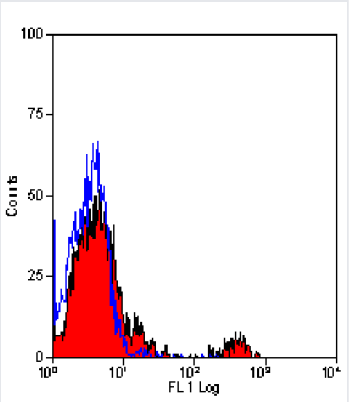
CD22 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

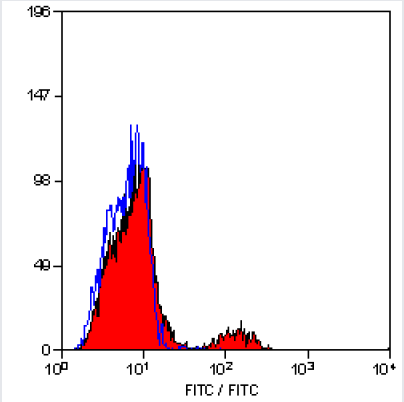
Product Name	CD22, Monoclonal Antibody
Full Product Name	MOUSE ANTI HUMAN CD22:RPE
Product Gene Name	anti-CD22 antibody
Clonality	Monoclonal
Isotype	IgG1
Clone Number	MEM-01
Host	Mouse
Form/Format	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilised
Preparation and Storage	Prior to reconstitution store at 4 degree C. Following reconstitution store at 4 degree C. DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use. Shelf Life: 12 months from date of reconstitution.
Molecular Weight	75,354 Da
OMIM	107266
3D Structure	ModBase 3D Structure for P20273
Reconstitution	Reconstitute with 1 ml distilled water Perservative Stabilisers||0.09% Sodium Azide 1% Bovine Serum Albumin 5% Sucrose Preparation||Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Immunogen	Burkitt's lymphoma cell line Raji Buffer Solution||Phosphate buffered saline
Target Species	Human
Applications Tested/Suitable for anti-CD22 antibody	Flow cytometry (FC/FACS)
Application Notes for anti-CD22 antibody	Flow Cytometry: Use 10ul of the suggested working dilution to label 6 cells in 100ul. **Flow Cytometry:** Minimum Dilution: Neat; Maximum Dilution: 1/10
Related Product Information for anti-CD22 antibody	Mouse anti Human CD22 antibody, clone MEM-01 recognizes the human CD22 cell surface antigen, a 130/140kD glycoprotein expressed by cells of B lymphocyte lineage. CD22 is initially expressed cytoplasmically and subsequently on the cell surface during B cell maturation. It is lost upon terminal differentiation to plasma cells.
Other Notes	Small volumes of anti-CD22 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 CD22 purchase	MBS213790 is an antibody targeting CD22. Also known as MOUSE ANTI HUMAN CD22:RPE. Host: Mouse.



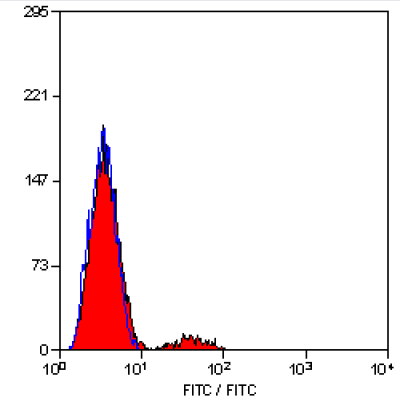
Testing Data of anti-CD22 antibody
Staining of human peripheral blood lymphocytes with Mouse anti Human CD22: Alexa Fluor 647 (MBS212707A647)



Testing Data of anti-CD22 antibody
Staining of human peripheral blood lymphocytes with Mouse anti Human CD22: RPE



Testing Data of anti-CD22 antibody
Staining of human peripheral blood lymphocytes with Mouse anti Human CD22 (MBS212707)



Testing Data of anti-CD22 antibody
Staining of human peripheral blood lymphocytes with Mouse anti Human CD22: FITC (MBS210963)

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD22. It may not necessarily be applicable to this product.

NCBI GI #	297374825
NCBI GeneID	933
NCBI Accession #	NP_001172028.1
UniProt Primary Accession #	P20273
UniProt Secondary Accession #	O95699; O95701; O95702; O95703; Q01665; Q32M46; Q92872; Q92873; Q9UQA6; F5GYU4; F5H7U3
UniProt Related Accession #	P20273
GenBank Nucleotide #	NM_001185099.1
NCBI Official Full Name	B-cell receptor CD22 isoform 2
NCBI Official Synonym Full Names	CD22 molecule
NCBI Official Symbol	CD22
NCBI Official Synonym Symbols	SIGLEC2; SIGLEC-2
UniProt Protein Name	B-cell receptor CD22
UniProt Synonym Protein Names	B-lymphocyte cell adhesion molecule; BL-CAM; Sialic acid-binding Ig-like lectin 2; Siglec-2; T-cell surface antigen Leu-14; CD_antigen: CD22

Protein Family	B-cell receptor
UniProt Gene Name	CD22
UniProt Synonym Gene Names	SIGLEC2; BL-CAM; Siglec-2
UniProt Entry Name	CD22_HUMAN
NCBI Protein Information	B-cell receptor CD22; B-lymphocyte cell adhesion molecule; BL-CAM; CD22 antigen; T-cell surface antigen Leu-14; sialic acid binding Ig-like lectin 2; sialic acid-binding Ig-like lectin 2
UniProt Comments for CD22	CD22: Mediates B-cell B-cell interactions. May be involved in the localization of B-cells in lymphoid tissues. Binds sialylated glycoproteins; one of which is CD45. Preferentially binds to alpha-2,6-linked sialic acid. The sialic acid recognition site can be masked by cis interactions with sialic acids on the same cell surface. Upon ligand induced tyrosine phosphorylation in the immune response seems to be involved in regulation of B-cell antigen receptor signaling. Plays a role in positive regulation through interaction with Src family tyrosine kinases and may also act as an inhibitory receptor by recruiting cytoplasmic phosphatases via their SH2 domains that block signal transduction through dephosphorylation of signaling molecules. Belongs to the immunoglobulin superfamily. SIGLEC (sialic acid binding Ig-like lectin) family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Cell surface; Membrane protein, integral Chromosomal Location of Human Ortholog: 19q13.1 Cellular Component: integral to plasma membrane; external side of plasma membrane Molecular Function: protein binding; carbohydrate binding Biological Process: cell adhesion
Research Articles on CD22	**1.** By using integrative genomics and analysing the relationships of COPD phenotypes with SNPs and gene expression in lung tissue, we identified CST3 and CD22 as potential causal genes for airflow obstruction.
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