CD22 Antibody – Mouse

PRODUCT OVERVIEW

Product Name	CD22, Antibody
Full Product Name	PE/Cyanine7 Anti-Mouse CD22 Antibody
Product Gene Name	anti-CD22 antibody
Product Synonym Names	B-cell receptor CD22, Cd22, B-lymphocyte cell adhesion molecule, BL-CAM, Sialic acid-binding Ig-like lectin 2, Siglec-2, T-cell surface antigen Leu-14, CD22, Lyb-8, Siglec2
Isotype	Rat IgG2a, kappa
Host	Mouse
Species Reactivity	Mouse
Form/Format	PBS with 0.05% Proclin300, 1% BSA
Concentration	0.2mg/mL (lot specific)
Preparation and Storage	Store at 2~8 degree C and protected from prolonged exposure to light. Do not freeze.
Molecular Weight	92,857 Da
3D Structure	ModBase 3D Structure for P35329
Conjugation	PE/Cyanine7
Product Categories/Family for anti-CD22 antibody	Flow Cytometry Antibodies
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-CD22 antibody	Flow Cytometry (FC/FACS/FCM)
Related Product Information for anti-CD22 antibody	MBS4516127 is an antibody targeting CD22. Also known as PE/Cyanine7 Anti-Mouse CD22 Antibody. Reactive in Mouse. Host: Mouse.
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.

ADDITIONAL DETAILS

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

NCBI GI #	461664
NCBI GeneID	12483
NCBI Accession #	P35329.1
UniProt Primary Accession #	P35329
UniProt Secondary Accession #	Q9JHL2; Q9JJX9; Q9JJY0; Q9JJY1; Q9R056; Q9R094; Q9WU51
UniProt Related Accession #	P35329
NCBI Official Full Name	B-cell receptor CD22

NCBI Official Synonym Full Names	CD22 antigen
NCBI Official Symbol	Cd22
NCBI Official Synonym Symbols	Lyb8; Lyb-8; A530093D23
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	Lyb-8; Siglec2; BL-CAM; Siglec-2
UniProt Entry Name	CD22_MOUSE
NCBI Protein Information	B-cell receptor CD22; BL-CAM; siglec-2; T-cell surface antigen Leu-14; B-lymphocyte cell adhesion molecule; 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: Membrane protein, integral; Cell surface Cellular Component: membrane; integral to plasma membrane; plasma membrane; integral to membrane; external side of plasma membrane Molecular Function: protein binding; coreceptor activity; carbohydrate binding Biological Process: cell surface receptor linked signal transduction; cell adhesion
Research Articles on CD22	**1.** These data assign a key role to CCL22 in Treg recruitment in the protection of NOD mice against type 1 diabetes following the treatment with G-CSF.
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