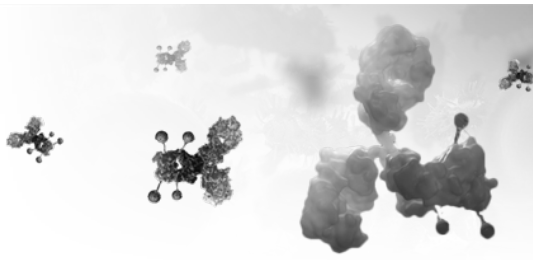

Mouse Anti-Mouse CD22 Monoclonal antibody, clone Cy34.1 (CABT-L4309)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	The Cy34.1 monoclonal antibody reacts with mouse CD22, a member of the SIGLEC family of lectins.
Target	Mouse CD22
Immunogen	B10.D2 mouse splenocytes
Isotype	IgG1, κ
Source/Host	Mouse
Species Reactivity	Mouse
Clone	Cy34.1
Purification	Protein G purified. Purity>95%. Determined by SDS-PAGE
Conjugate	Functional Grade
Applications	in vivo B cell depletion in combination with anti-CD19 (clone 1D3) and anti-rat κ Light Chain (clone MAR 18.5), FC, IP
Molecular Weight	150 kDa
Format	0.2 μM filtered liquid. Purified from tissue culture supernatant in an animal free facility
Concentration	Lot specific
Size	5 mg

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Buffer	PBS, pH 7.0. Contains no stabilizers or preservatives. [low endotoxin azide-free] Endotoxin level: <2EU/mg (<0.002EU/μg). Determined by LAL gel clotting assay Related dilution buffer: CABT-LB04
Preservative	None
Storage	The antibody solution should be stored undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.
Ship	Wet ice

BACKGROUND

Introduction	The Cy34.1 monoclonal antibody reacts with mouse CD22, a member of the SIGLEC family of lectins. CD22 is expressed at high levels on the surface of mature follicular and marginal zone B lymphocytes, B-1 cells, and plasma cells and associates with the B-cell antigen receptor. CD22 mediates B cell adhesion to ligands on endothelial cells in the bone marrow. Additionally, CD22 to negatively regulates B cell activation and prevents the development of autoimmune diseases. The Cy34.1 antibody has been shown to augment B cell proliferation in response to LPS or anti-mouse Ig μ chain.
Keywords	CD22;CD22 antigen;Lyb8;Lyb-8;A530093D23;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;

GENE INFORMATION

Official Symbol	CD22 antigen
Synonyms	CD22; CD22 antigen; Lyb8; Lyb-8; A530093D23; 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;
References	Sawen, P., et al. (2016). "Mitotic History Reveals Distinct Stem Cell Populations and Their Contributions to Hematopoiesis." Cell Rep 14(12): 2809-2818. PubMed;

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