Anti-Human CD22 Antibody, Clone HIB22

Antibodies

Mouse monoclonal IgG1 antibody against human, chimpanzee CD22, unconjugated

Catalog #60083

100 ug 0.5 mg/mL

Product Description

The HIB22 antibody reacts with CD22 (Siglec-2), a type I transmembrane glycoprotein expressed in the cytoplasm of pro-B and pre-B cells and on the surface of mature and activated B cells and B cell lymphomas, but not on plasma cells. CD22 functions as an inhibitory receptor for B cell receptor signaling and plays roles in modulating the activation threshold of B cells and controlling CD40 signaling. CD22 comprises two isoforms generated by alternative splicing: CD22α (~130 kDa) and CD22β (~140 kDa). Monomeric CD22β is the most abundant isoform but an αβ heterodimer is also expressed. CD22 is a member of the sialoadhesion subgroup within the immunoglobulin superfamily, with an N-terminal V-type Ig domain followed by six C2-type Ig domains. Binding of the HIB22 antibody reportedly requires the presence of the two N-terminal-most domains. Both the cytoplasmic and surface-bound forms of CD22 are recognized by the HIB22 antibody and its binding does not inhibit CD22-mediated cyto-adhesion.

Target Antigen Name: CD22

Alternative Names: B-lymphocyte cell adhesion molecule, BLCAM, Leu-14, Lyb8, Sialic acid-binding Ig-like lectin 2, Siglec-2

Gene ID: 933

Species Reactivity: Human, Chimpanzee

Host Species: Mouse

Clonality: Monoclonal

Clone: HIB22

Isotype: IgG1, kappa

Immunogen: Hairy cell leukemia cells

Conjugate: Unconjugated

Applications

Verified: FC

Reported: ELISA, FA, FC, ICC, IF, IHC, IP

Special Applications: This antibody clone has been verified for purity assessments of cells isolated with EasySep™ kits, including EasySep™ HLA Whole Blood B Cell Positive Selection Kit (Catalog #18184HLA), EasySep™ Human CD19 Positive Selection Kit (Catalog #18054) and EasySep™ HLA B Cell Positive Selection Kit (Catalog #18454HLA).

Properties

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide

Purification: The antibody was purified by affinity chromatography.

Stability and Storage: Product stable at 2 - 8°C when stored undiluted. Do not freeze. For product expiry date, please contact techsupport@stemcell.com.

Directions for Use: For flow cytometry the suggested use of this antibody is ≤ 2.0 μg per 1 x 10e6 cells in 100 μL volume. It is recommended that the antibody be titrated for optimal performance for each application.
Data

Flow cytometry analysis of human peripheral blood mononuclear cells (PBMCs) labeled with Anti-Human CD22 Antibody, Clone HIB22, followed by goat anti-mouse IgG, FITC (filled histogram) or a mouse IgG1, kappa isotype control antibody followed by goat anti-mouse IgG, FITC (black line histogram).

Related Products

For a complete list of antibodies, including other conjugates, sizes and clones, as well as related products available from STEMCELL Technologies, please visit our website at www.stemcell.com/antibodies or contact us at techsupport@stemcell.com.

References


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