

## Monoclonal Antibody to CD22 / SIGLEC2 - PE -

<b>Alternate names:</b>	B-cell receptor CD22, B-lymphocyte cell adhesion molecule, BL-CAM, Leu-14, SIGLEC2, Sialic acid-binding Ig-like lectin 2, Siglec-2
<b>Catalog No.:</b>	AM03204RP-N
<b>Quantity:</b>	100 Tests
<b>Background:</b>	CD22, also known as Siglec-2 (sialic acid-binding immunoglobulin-like lectin-2) is a transmembrane glycoprotein binding alpha2,6-linked sialic acid-bearing ligands. Intracellular domain of CD22 recruits protein tyrosine phosphatase SHP-1 through the immunoreceptor tyrosine-based inhibitory motifs (ITIMs), thus setting a threshold for B cell receptor-mediated activation. CD22 also regulates B-cell response by involvement in controlling the CD19/CD21- <i>Src</i> -family protein tyrosine kinase amplification pathway and CD40 signaling. CD22 exhibits hallmarks of clathrin-mediated endocytic pathway.
<b>Uniprot ID:</b>	<a href="#">P20273</a>
<b>NCBI:</b>	<a href="#">9606</a>
<b>Host / Isotype:</b>	Mouse / IgG1
<b>Clone:</b>	IS7
<b>Immunogen:</b>	Reh human cell line
<b>Format:</b>	<b>State:</b> Liquid Ig fraction <b>Purification:</b> Size-exclusion chromatography <b>Buffer System:</b> Phosphate buffered saline (PBS) containing 15 mM sodium azide and 0.2% (w/v) high-grade protease free Bovine Serum Albumin (BSA) as a stabilizing agent. <b>Label:</b> PE – Conjugated with R-Phycoerythrin under optimum conditions
<b>Applications:</b>	Flow Cytometry analysis of human blood cells using 20 µl reagent / 100 µl of whole blood or 10e6 cells in a suspension. The content of a vial (2 ml) is sufficient for 100 tests. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody reacts with CD22 (BL-CAM), a 130 kDa type I transmembrane glycoprotein (immunoglobulin superfamily) expressed in the cytoplasm of pro-B and pre-B lymphocytes, and on the surface of mature and activated B lymphocytes; it is lost on plasma cells, peripheral blood T lymphocytes, granulocytes and monocytes. <b>Species:</b> Human. Other species not tested.
<b>Storage:</b>	Store the antibody at 2 - 8 °C. DO NOT FREEZE! This product is photosensitive and should be protected from light. Shelf life: one year from despatch.

- General Readings:**
1. Tedder TF, Poe JC, Haas KM. CD22: a multifunctional receptor that regulates B lymphocyte survival and signal transduction. *Adv Immunol.* 2005;88:1-50. PubMed PMID: 16227086.
  2. Tatenos H, Li H, Schur MJ, Bovin N, Crocker PR, Wakarchuk WW, et al. Distinct endocytic mechanisms of CD22 (Siglec-2) and Siglec-F reflect roles in cell signaling and innate immunity. *Mol Cell Biol.* 2007 Aug;27(16):5699-710. Epub 2007 Jun 11. PubMed PMID: 17562860.
  3. Walker JA, Smith KG: CD22: an inhibitory enigma. *Immunology.* 2007 Dec 7
  4. Leukocyte Typing IV., Knapp W. et al. (Eds.), Oxford University Press (1989).
  5. Leukocyte Typing V., Schlossman S. et al. (Eds.), Oxford University Press (1995).

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**For research and in vitro use only. Not for diagnostic or therapeutic work.**

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