

## Product datasheet for **AM03204AF-N**

### CD22 Mouse Monoclonal Antibody [Clone ID: IS7]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	IS7
Applications:	FC
Recommended Dilution:	Flow Cytometry. Positive control: lysed whole blood.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Reh human cell line
Specificity:	The antibody IS7 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.
Formulation:	Azide free phosphate buffered saline (PBS), approx. pH 7.4; 0.2 µm filter sterilized. State: Azide Free State: Liquid Ig fraction
Concentration:	lot specific
Purification:	Protein A affinity chromatography (> 95% pur by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store at 2 - 8 °C for up to one month or (in aliquots) at -20 °C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	CD22 molecule
Database Link:	<a href="#">Entrez Gene 933 Human</a> <a href="#">P20273</a>



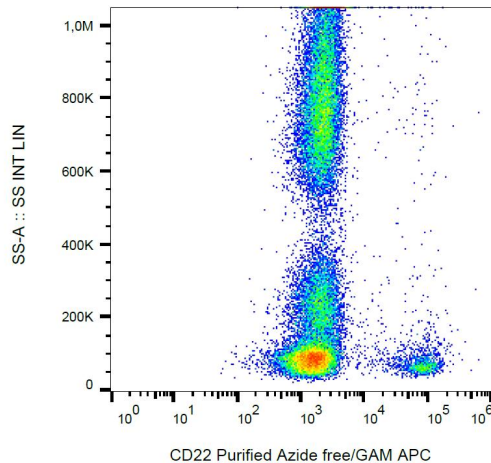
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**Background:**

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-Src-family protein tyrosine kinase amplification pathway and CD40 signaling. CD22 exhibits hallmarks of clathrin-mediated endocytic pathway.

**Synonyms:**

SIGLEC2, Siglec-2, B-cell receptor CD22, Leu-14, BL-CAM

**Product images:**

Surface staining of CD22 in human peripheral blood cells with anti-CD22 (IS7) azide free, GAM-APC.