

TECHNICAL DATA SHEET

CyFlow™ CD22 Azide Free Anti-Hu; Clone IS7

REF CL011891

For Research Use Only.

Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	CD22
Alternative Names	SIGLEC2, SIGLEC-2, BL-CAM
Clone	IS7
Clonality	monoclonal
Format	Azide Free
Host / Isotype	Mouse / IgG1
Species Reactivity	Human
Negative Species Reactivity	—
Quantity [Concentration]	0.1 mg [1 mg/ml]
Immunogen	Reh human cell line

Specificity

The mouse monoclonal antibody IS7 recognizes CD22 antigen, a 130 kDa type I transmembrane glycoprotein (immunoglobulin superfamily) expressed in the cytoplasm of pro-B and pre-B lymphocytes,

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and on the surface of mature and activated B lymphocytes; it is lost on plasma cells, peripheral blood T lymphocytes, granulocytes and monocytes.

Application

Based on published sources, this antibody is suitable for the following applications:

- Flow cytometry

Storage Buffer

The reagent is provided in azide-free phosphate buffered saline (PBS) solution, pH ≈7.4; 0.2 µm filter sterilized.

Storage and Stability

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
Stability	Do not use after expiration date stamped on vial label.

Background Information

CD22 (Siglec-2; sialic acid-binding immunoglobulin-like lectin-2) is a transmembrane glycoprotein binding α 2,6-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.

References

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- Doussis IA, Gatter KC, Mason DY: CD68 reactivity of non-macrophage derived tumours in cytological specimens. J Clin Pathol. 1993 Apr; 46(4):334-6. < PMID: 7684403 >
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The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

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