PE/Cyanine7 anti-human CD22

	2417590 / 100 tests 2417585 / 25 tests	Human peripheral blood lymphocytes were stained with CD19 APC and CD22 (clone S- HCL-1) PE/Cyanine7 (left) or mouse IgG2b, κ PE/Cyanine7 isotype control (right).
Clone:	S-HCL-1	
lsotype:	Mouse IgG2b, к	
Immunogen:	Mouse IL-9R transfectants	
Reactivity:	Human	
Preparation:	The antibody was purified by affinity chromatography and conjugated with PE/Cy7 under optimal conditions. The solution is free of unconjugated PE/Cy7 and unconjugated antibody.	
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).	
Workshop Number:	IV P38	
Concentration:	Lot-specific	

Applications:

Applications:	Flow Cytometry
Recommended Usage:	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 μ L per million cells in 100 μ L staining volume or 5 μ L per 100 μ L of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes:	 Nitschke L. 2005. Curr. Opin. Immunol. 17:290 Foon Ka, et al. 1986. Blood. 68:297 Schwarting R, et al. 1985. Blood. 65:974 Campana D, et al. 1985. J. Immunol. 134:1524
Application References:	 Knapp W, et al. 1989. Leucocyte Typing IV. Oxford University Press. New York. McCarty OJT, et al. 2000. Blood 96:1789. Yoshino N, et al. 2000. Exp. Anim. (Tokyo) 49:97. (FC) Zhi L et al. 2013. PLoS One. 8:e79869. (IHC)
Description:	CD22 is a 130 kD type I transmembrane glycoprotein also known as Siglec-2 and BL-CAM and is a member of the immunoglobulin superfamily (sialoadhesion subgroup). CD22 is expressed in the cytoplasm of pro-B and pre-B cells, and on the surface of mature B and activated B cells, but not on plasma cells. CD22 is present in the B cell receptor complex and associates with SHP-1, Syk, Lck, Lyn, and phospholipase Cγ1. A primary function of

CD22 is thought to be in limiting antigen receptor signaling by modulating B cell activation threshold. CD22 has been shown to bind to CD45RO and CD75, although the natural ligands for this molecule remain controversial.
 Antigen

 Clark E. 1993. J. Immunol. 150:4715.

References: 2. Shan D, *et al.* 1995. *J. Immunol.* 150:4715.

For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products. Sony Biotechnology Inc. 1730 North First Street, San Jose, CA 95112 www.sonybiotechnology.com