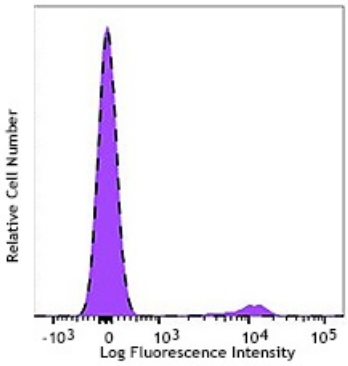
SONY

Product Data Sheet

APC/Fire™ 750 anti-human CD22

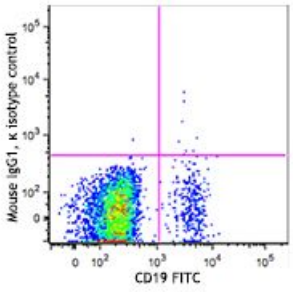
Catalog # / Size:	2112605 / 25 tests 2112610 / 100 tests
Clone:	HIB22
Isotype:	Mouse IgG1, κ
Immunogen:	Human T cells from a T-ALL patient.
Reactivity:	Human, Other
Preparation:	The antibody was purified by affinity chromatography and conjugated with APC/Fire™ 750 under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).
Workshop Number:	V CD22.14
Concentration:	Lot-specific



Human peripheral blood lymphocytes were stained with CD22 (clone HIB22) APC Fire™ 750 (filled histogram) or Mouse IgG1, κ APC Fire™ 750 isotype control (open histogram).

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 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood. * APC/Fire™ 750 has a maximum excitation of 650 nm and a maximum emission of 787 nm.
Application Notes:	Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen tissue sections.



Human peripheral blood lymphocytes were stained with anti-human CD4 FITC and anti-human CD25 (clone M-A251) Spark YG™ 581 (left) or anti-human CD4 FITC only (right).

Application References:

1. Schlossman S, et al. Eds. 1995. Leukocyte Typing V:White Cell Differentiation Antigens. Oxford University Press. New York.
2. Clark E. 1993. *J. Immunol.*. 150:4715.
3. Shan D and O. Press. 1995. *J. Immunol.*. 154:4466.

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Description: CD22 is a 130 kD type I transmembrane glycoprotein also known as Siglec-2 and BL-CAM. It 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 References:

1. Clark E. 1993. *J. Immunol.* 150:4715.
2. Shan D, *et al.* 1995. *J. Immunol.* 154:4466.