

## PE/Fire™ 810 anti-human CD22 Antibody

<b>Catalog# / Size</b>	363527 / 25 tests
<b>Clone</b>	S-HCL-1
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	BL-CAM, Siglec-2, Lyb8
<b>Isotype</b>	Mouse IgG2b, κ
<b>Description</b>	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.

### Product Details

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<b>Verified Reactivity</b>	Human
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with PE/Fire™ 810 under optimal conditions.
<b>Concentration</b>	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our <a href="#">Certificate of Analysis</a> online tool.)
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">FC - Quality tested</a>
<b>Recommended Usage</b>	<p>Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a>. 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. It is recommended that the reagent be titrated for optimal performance for each application.</p> <p>* PE/Fire™ 810 has a maximum excitation of 488/561 nm and a maximum emission of 810 nm.</p> <p>Excessive exposure to light, and commonly used fixation, permeabilization buffers can affect PE/Fire™ 810 fluorescence signal intensity and spread. Please keep conjugates protected from light exposure. For more information and representative data, visit our <a href="#">Fire Dyes</a> page.</p>
<b>Excitation Laser</b>	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
<b>Application Notes</b>	<ol style="list-style-type: none"><li>1. Nitschke L. 2005. <i>Curr. Opin. Immunol.</i> 17:290</li><li>2. Foon Ka, <i>et al.</i> 1986. <i>Blood.</i> 68:297</li><li>3. Schwarting R, <i>et al.</i> 1985. <i>Blood.</i> 65:974</li><li>4. Campana D, <i>et al.</i> 1985. <i>J. Immunol.</i> 134:1524</li></ol>
<b>RRID</b>	AB_3683387 (BioLegend Cat. No. 363527)

## Antigen Details

<b>Structure</b>	Ig superfamily, a type I glycosylated integral transmembrane protein, 120-130 kD
<b>Distribution</b>	B cells
<b>Function</b>	Adhesion, B-monocyte and B-T interactions
<b>Ligand/Receptor</b>	CD45RO, CD75
<b>Cell Type</b>	B cells
<b>Biology Area</b>	Immunology
<b>Molecular Family</b>	CD Molecules, Siglec Molecules
<b>Antigen References</b>	<ol style="list-style-type: none"><li>1. Clark E. 1993. <i>J. Immunol.</i> 150:4715.</li><li>2. Shan D, <i>et al.</i> 1995. <i>J. Immunol.</i> 154:4466.</li></ol>
<b>Gene ID</b>	<a href="#">933</a>

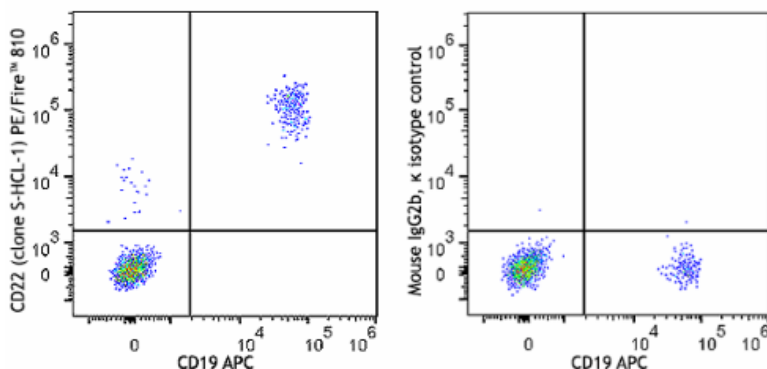
## Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

## Other Formats

Purified anti-human CD22, Brilliant Violet 421™ anti-human CD22, PE anti-human CD22, APC anti-human CD22, FITC anti-human CD22, TotalSeq™-A0393 anti-human CD22, TotalSeq™-C0393 anti-human CD22, PE/Cyanine7 anti-human CD22, PerCP/Cyanine5.5 anti-human CD22, TotalSeq™-B0393 anti-human CD22, APC/Fire™ 750 anti-human CD22, TotalSeq™-D0393 anti-human CD22, PE/Fire™ 810 anti-human CD22 Antibody

## Product Data



Human peripheral blood lymphocytes were stained with anti-human CD19 (clone HIB19) APC and anti-human CD22 (clone S-HCL-1) PE/Fire™ 810 (left) or mouse IgG2b, κ PE/Fire™ 810 isotype control (right).

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