# PE/Fire™ 810 anti-human CD22 Antibody

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

## Product Details

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| **Verified Reactivity** | Human |
| **Antibody Type** | Monoclonal |
| **Host Species** | Mouse |
| **Formulation** | Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA) |
| **Preparation** | The antibody was purified by affinity chromatography and conjugated with PE/Fire™ 810 under optimal conditions. |
| **Concentration** | Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our Certificate of Analysis online tool.) |
| **Storage & Handling** | The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. **Do not freeze**. |
| **Application** | FC - Quality tested |
| **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. It is recommended that the reagent be titrated for optimal performance for each application.<br><br>* PE/Fire™ 810 has a maximum excitation of 488/561 nm and a maximum emission of 810 nm.<br><br>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 Fire Dyes page. |
| **Excitation Laser** | Blue Laser (488 nm)<br>Green Laser (532 nm)/Yellow-Green Laser (561 nm) |
| **Application Notes** | |


1. Nitschke L. 2005. *Curr. Opin. Immunol.* 17:290
2. Foon Ka, *et al.* 1986. *Blood.* 68:297
3. Schwarting R, *et al.* 1985. *Blood.* 65:974
4. Campana D, *et al.* 1985. *J. Immunol.* 134:1524


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| **RRID** | AB_3683387 (BioLegend Cat. No. 363527) |

## Antigen Details

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| **Structure** | Ig superfamily, a type I glycosylated integral transmembrane protein, 120-130 kD |
| **Distribution** | B cells |
| **Function** | Adhesion, B-monocyte and B-T interactions |
| **Ligand/Receptor** | CD45RO, CD75 |
| **Cell Type** | B cells |
| **Biology Area** | Immunology |
| **Molecular Family** | CD Molecules, Siglec Molecules |
| **Antigen References** | 1. Clark E. 1993. *J. Immunol.* 150:4715.<br>2. Shan D, *et al.* 1995. *J. Immunol.* 154:4466. |
| **Gene ID** | 933 |

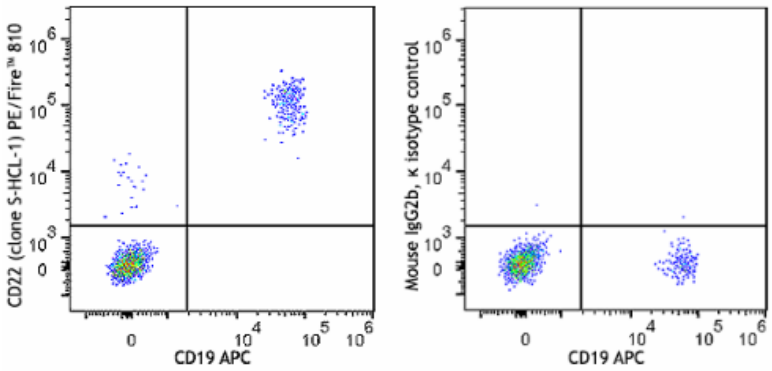
## Related Protocols

- 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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