

## Spark PLUS B550™ anti-human CD185 (CXCR5) Recombinant Antibody

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|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Catalog# / Size</b>   | 382407 / 25 tests<br>382408 / 100 tests                                                                                                                                                                                                                                                                                                           |
| <b>Clone</b>             | QA21A13                                                                                                                                                                                                                                                                                                                                           |
| <b>Regulatory Status</b> | RUO                                                                                                                                                                                                                                                                                                                                               |
| <b>Other Names</b>       | BLR1, MDR15                                                                                                                                                                                                                                                                                                                                       |
| <b>Isotype</b>           | Mouse IgG1, $\kappa$                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>       | CD185, also known as CXCR5, is a 42 kD G-protein coupled receptor with seven transmembrane regions. CXCR5 is expressed by mature B cells, follicular helper T cells, Burkitt's lymphoma cells and a subset of neurons, and mediates cell migration to the B cell follicles in the secondary lymphoid organs. The ligand of CXCR5 is CXCL13 (BLC). |

### Product Details

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| <b>Verified Reactivity</b>    | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Antibody Type</b>          | Recombinant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <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 Spark PLUS B550™ 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>      | 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 $\mu$ L per million cells in 100 $\mu$ L staining volume or 5 $\mu$ L per 100 $\mu$ L of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.<br><br>* Spark PLUS B550™ has a maximum excitation of 516 nm and a maximum emission of 540 nm. |
| <b>Excitation Laser</b>       | Blue Laser (488 nm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Application Notes</b>      | Clone QA21A13 can completely block the binding of clone J252D4 on target cells.                                                                                                                                                                                                                                                                                                                                                                                                                          |

### Antigen Details

|                        |                                                                                  |
|------------------------|----------------------------------------------------------------------------------|
| <b>Structure</b>       | G-protein coupled receptor, 7 transmembrane regions, 42 kD                       |
| <b>Distribution</b>    | Mature B cells, Follicular helper T cells, and Burkitt's lymphoma cells.         |
| <b>Function</b>        | Mediates cell migration to the B cell follicles in the secondary lymphoid organs |
| <b>Ligand/Receptor</b> | CXCL13                                                                           |
| <b>Cell Type</b>       | B cells, Tfh                                                                     |

**Biology Area** Cell Biology, Immunology, Neuroinflammation, Neuroscience

**Molecular Family** CD Molecules, Cytokine/Chemokine Receptors, GPCR

**Antigen References**

1. Ma CS, *et al.* 2012. *J Exp Med.* 209:1241-53.
2. León B, *et al.* 2012. *Nat. Immunol.* 13:681-90.
3. Crotty S. 2011. *Annu Rev Immunol.* 29:621-63.
4. Kerfoot SM, *et al.* 2011. *Immunity.* 34:947-60.
5. Sáez de Guinoa J, *et al.* 2011. *Blood.* 118:1560-9.

**Gene ID** [643](#)

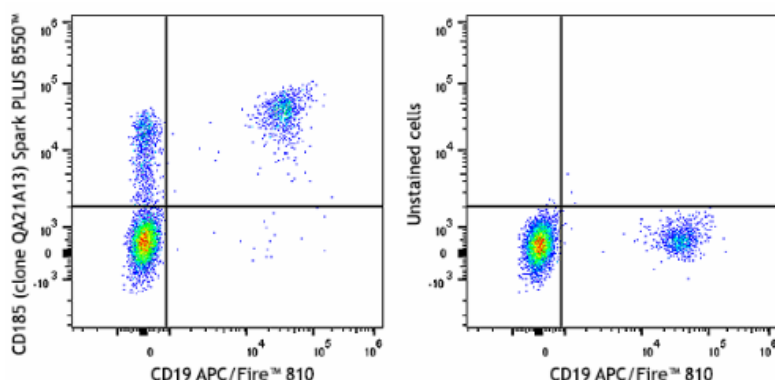
## Related Protocols

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

## Other Formats

Purified anti-human CD185 (CXCR5) Recombinant Antibody, PE anti-human CD185 (CXCR5) Recombinant Antibody, APC anti-human CD185 (CXCR5) Recombinant Antibody, Spark PLUS B550™ anti-human CD185 (CXCR5) Recombinant Antibody

## Product Data



Human peripheral blood cells were stained with anti-human CD19 (clone HIB19) APC/Fire™ 810 and anti-human CD185 (CXCR5) recombinant (clone QA21A13) Spark PLUS B550™ (left) or stained with anti-human CD19 (clone HIB19) APC/Fire™ 810 only (right). Data was gated on the lymphocyte population.

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