

## PE/Fire™ 744 anti-mouse CD192 (CCR2) Antibody

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Catalog# / Size</b>   | 150651 / 25 µg<br>150652 / 100 µg                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Clone</b>             | SA203G11                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Regulatory Status</b> | RUO                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Other Names</b>       | Ccr2, Ckr2, Ccr2a, Ccr2b                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Isotype</b>           | Rat IgG2b, κ                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Description</b>       | CD192, also known as CCR2, is a 42 kD G-protein coupled receptor that is associated with bone marrow homeostasis. Specifically, CD192 mediates monocyte chemotaxis and acts as a receptor for monocyte chemoattractant protein 1 (MCP-1). CD192 is primarily expressed on monocytes and macrophages, with some expression on basophils. It is involved in monocyte infiltration in inflammatory diseases such as rheumatoid arthritis and cancer. |

### Product Details

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| <b>Verified Reactivity</b>    | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Antibody Type</b>          | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Host Species</b>           | Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Immunogen</b>              | Mouse CCR2 transfectants.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Formulation</b>            | Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Preparation</b>            | The antibody was purified by affinity chromatography and conjugated with PE/Fire™ 744 under optimal conditions.                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Concentration</b>          | 0.2 mg/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <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 ≤ 0.5 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application.<br><br>True-Stain Monocyte Blocker™ (Cat No. 426102) is recommended to minimize non-specific staining of PE/Fire™ 744 on monocytes and macrophages.<br><br>* PE/Fire™ 744 has a maximum excitation of 565 nm and a maximum emission of 744 nm. |
| <b>Excitation Laser</b>       | Blue Laser (488 nm)<br>Green Laser (532 nm)/Yellow-Green Laser (561 nm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

### Antigen Details

|                     |                                                              |
|---------------------|--------------------------------------------------------------|
| <b>Structure</b>    | G-protein-coupled receptor, 7-transmembrane protein, 42 kD.  |
| <b>Distribution</b> | Monocytes/macrophages and basophils.                         |
| <b>Function</b>     | Mediator of monocyte chemotaxis and bone marrow homeostasis. |

|                           |                                                                                                                                                                                                                                                         |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Ligand/Receptor</b>    | MCP-1, Ccl2, Ccl7, and Ccl13.                                                                                                                                                                                                                           |
| <b>Cell Type</b>          | Basophils, Macrophages, Monocytes                                                                                                                                                                                                                       |
| <b>Biology Area</b>       | Immunology                                                                                                                                                                                                                                              |
| <b>Molecular Family</b>   | CD Molecules, Cytokine/Chemokine Receptors, GPCR                                                                                                                                                                                                        |
| <b>Antigen References</b> | <ol style="list-style-type: none"> <li>1. Mack M, <i>et al.</i> 2001. <i>J. Immunol.</i> 166:4697.</li> <li>2. Dutta P, <i>et al.</i> 2015. <i>Cell Stem Cell.</i> 16:477.</li> <li>3. Li L, <i>et al.</i> 2008. <i>Kidney Int.</i> 74:1526.</li> </ol> |
| <b>Gene ID</b>            | <a href="#">12772</a>                                                                                                                                                                                                                                   |

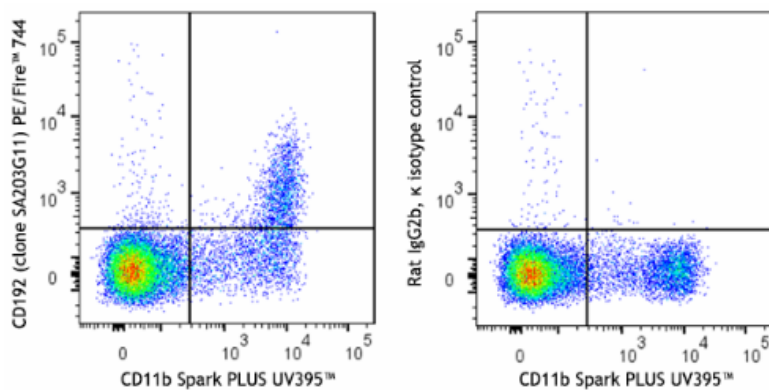
## Related Protocols

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

## Other Formats

PE/Dazzle™ 594 anti-mouse CD192 (CCR2), Brilliant Violet 711™ anti-mouse CD192 (CCR2), PE/Fire™ 700 anti-mouse CD192 (CCR2), PerCP/Fire™ 780 anti-mouse CD192 (CCR2), Spark Red™ 718 anti-mouse CD192 (CCR2) (Flexi-Fluor™), PE/Fire™ 640 anti-mouse CD192 (CCR2), Alexa Fluor® 647 anti-mouse CD192 (CCR2), Brilliant Violet 421™ anti-mouse CD192 (CCR2), PE anti-mouse CD192 (CCR2), FITC anti-mouse CD192 (CCR2), Brilliant Violet 605™ anti-mouse CD192 (CCR2), Brilliant Violet 785™ anti-mouse CD192 (CCR2), APC/Cyanine7 anti-mouse CD192 (CCR2), TotalSeq™-A0426 anti-mouse CD192 (CCR2), APC anti-mouse CD192 (CCR2), APC/Fire™ 750 anti-mouse CD192 (CCR2), TotalSeq™-C0426 anti-mouse CD192 (CCR2), Biotin anti-mouse CD192 (CCR2), PE/Fire™ 744 anti-mouse CD192 (CCR2), PE/Cyanine5 anti-mouse CD192 (CCR2), PE/Cyanine7 anti-mouse CD192 (CCR2), Brilliant Violet 650™ anti-mouse CD192 (CCR2), Brilliant Violet 510™ anti-mouse CD192 (CCR2), TotalSeq™-B0426 anti-mouse CD192 (CCR2)

## Product Data



C57BL/6 mouse bone marrow cells were stained with anti-mouse Ly-6G (clone 1A8) FITC, anti-mouse/human CD11b (clone M1/70) Spark PLUS UV395™, anti-mouse CD192 (CCR2) (clone SA203G11) PE/Fire™ 744 (left) or rat IgG2b, κ PE/Fire™ 744 isotype control (right). Data was gated on Ly-6G negative cells.

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