

## Datasheet: MCA2175SBV440

**BATCH NUMBER 64575923**

|                      |  |
|----------------------|--|
| <b>Description:</b>  | RAT ANTI HUMAN CD195:StarBright Violet 440 |
| <b>Specificity:</b>  | CD195                                      |
| <b>Other names:</b>  | CCR5                                       |
| <b>Format:</b>       | StarBright Violet 440                      |
| <b>Product Type:</b> | Monoclonal Antibody                        |
| <b>Clone:</b>        | HEK/1/85a                                  |
| <b>Isotype:</b>      | IgG2a                                      |
| <b>Quantity:</b>     | 100 TESTS/0.5ml                            |

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

|                | Yes | No | Not Determined | Suggested Dilution |
|----------------|-----|----|----------------|--------------------|
| Flow Cytometry | ▪   |    |                | Neat               |

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

|                        |   |                            |                          |
|------------------------|---|----------------------------|--------------------------|
| <b>Target Species</b>  | Human   |                            |                          |
| <b>Product Form</b>    | Purified IgG conjugated to StarBright Violet 440 - liquid                                     |                            |                          |
| <b>Max Ex/Em</b>       | <b>Fluorophore</b>  | <b>Excitation Max (nm)</b> | <b>Emission Max (nm)</b> |
|                        | StarBright Violet 440   | 383                        | 436                      |
| <b>Preparation</b>     | Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant |                            |                          |
| <b>Buffer Solution</b> | Phosphate buffered saline   |                            |                          |
| <b>Preservative</b>    | 0.09% Sodium Azide (NaN <sub>3</sub> )  |                            |                          |
| <b>Stabilisers</b>     | 1% Bovine Serum Albumin   |                            |                          |
|                        | 0.1% Pluronic F68   |                            |                          |
|                        | 0.1% PEG 3350   |                            |                          |

0.05% Tween 20

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**Immunogen** CHO cells transfected with human CCR5

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**External Database Links**

**UniProt:**

[P51681](#)    [Related reagents](#)

**Entrez Gene:**

[1234](#)    CCR5    [Related reagents](#)

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**Synonyms** CMKBR5

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**Fusion Partners** Spleen cells from immunized rats were fused with cell of the rat Y3 myeloma cell line

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**Specificity** **Rat anti Human CD195 antibody, clone HEK/1/85a** recognizes the human CD195 cell surface antigen, a 45 kDa glycoprotein also known as CCR5.

CD195 acts as a receptor for a number of chemokines including RANTES and eotaxin and serves as a co-receptor for the entry of HIV into cells. CD195 is expressed by a subset of T lymphocytes and by monocytes.

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**Flow Cytometry** Use 5µl of the suggested working dilution to label 10<sup>6</sup> cells in 100µl. Best practices suggest a 5 minutes centrifugation at 6,000g prior to sample application.

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**References**

1. Mueller, A. *et al.* (2002) Pathways for internalization and recycling of the chemokine receptor CCR5. [Blood 99 \(3\): 785-91.](#)
  2. Ramirez, R. *et al.* (2006) Microinflammation in hemodialysis is related to a preactivated subset of monocytes. [Hemodial Int. 10 Suppl 1:S24-7.](#)
  3. Liptrott, N.J. *et al.* (2009) The impact of cytokines on the expression of drug transporters, cytochrome P450 enzymes and chemokine receptors in human PBMC. [Br J Pharmacol. 156: 497-508.](#)
  4. Pilch-Cooper, H.A. *et al.* (2011) Circulating human CD4 and CD8 T cells do not have large intracellular pools of CCR5. [Blood 118: 1015-9.](#)
  5. Bönsch, C. *et al.* (2015) Potent Anti-HIV Chemokine Analogs Direct Post-Endocytic Sorting of CCR5. [PLoS One 10 \(4\): e0125396.](#)
  6. Holmannova, D. *et al.* (2017) Effects of conventional CPB and mini-CPB on neutrophils CD162, CD166 and CD195 expression. [Perfusion. 32 \(2\): 141-50.](#)
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**Storage** Store at +4°C. DO NOT FREEZE.  
This product should be stored undiluted.

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**Guarantee** 12 months from date of despatch

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**Acknowledgements** This product is covered by U.S. Patent No. 10,150,841 and related U.S. and foreign counterparts

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**Health And Safety Information** Material Safety Datasheet documentation #20471 available at:

**Regulatory**

For research purposes only

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## Related Products

### Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

**Product inquiries:** [www.bio-rad-antibodies.com/technical-support](http://www.bio-rad-antibodies.com/technical-support)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](http://bio-rad-antibodies.com/datasheets)  
'M426499:240123'

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