

## Datasheet: MCA2175A647

<b>Description:</b>	RAT ANTI HUMAN CD195:Alexa Fluor® 647
<b>Specificity:</b>	CD195
<b>Other names:</b>	CCR5
<b>Format:</b>	ALEXA FLUOR® 647
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	HEK/1/85a
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	100 TESTS/1ml

## 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 - 1/10

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Human		
<b>Product Form</b>	Purified IgG conjugated to Alexa Fluor® 647 - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	Alexa Fluor®647	650	665
<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		
<b>Stabilisers</b>	1% Bovine Serum Albumin		
<b>Approx. Protein Concentrations</b>	IgG concentration 0.05 mg/ml		
<b>Immunogen</b>	CHO cells transfected with human CCR5		
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">P51681</a> <a href="#">Related reagents</a>		

**Entrez Gene:**

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

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**Synonyms**

CMKBR5

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**Fusion Partners**

Spleen cells from immunised 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 10ul of the suggested working dilution to label 100ul fresh whole blood.

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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. 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.](#)
3. Ramirez, R. *et al.* (2006) Microinflammation in hemodialysis is related to a preactivated subset of monocytes. [Hemodial Int. 10 Suppl 1:S24-7.](#)
4. 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.](#)
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.* (2016) Effects of conventional CPB and mini-CPB on neutrophils CD162, CD166 and CD195 expression. [Perfusion Sep 13. pii: 0267659116669586. \[Epub ahead of print\]](#)

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**Storage**

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.

Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Shelf Life**

18 months from date of despatch.

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**Acknowledgements**

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**Health And Safety Information** Material Safety Datasheet documentation #10041 available at:  
10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

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**Regulatory** For research purposes only

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## Related Products

### Recommended Negative Controls

[RAT IgG2a NEGATIVE CONTROL:Alexa Fluor® 647 \(MCA6005A647\)](#)

### Recommended Useful Reagents

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

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

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'M300259:170105'

**Printed on 05 May 2018**

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