

Datasheet: MCA2175A488

Description:	RAT ANTI HUMAN CD195:Alexa Fluor® 488
Specificity:	CD195
Other names:	CCR5
Format:	ALEXA FLUOR® 488
Product Type:	Monoclonal Antibody
Clone:	HEK/1/85a
Isotype:	IgG2a
Quantity:	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.

	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.

Target Species	Human		
Product Form	Purified IgG conjugated to Alexa Fluor® 488 - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	Alexa Fluor®488	495	519
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant		
Buffer Solution	Phosphate buffered saline		
Preservative Stabilisers	0.09% sodium azide (NaN ₃) 1% bovine serum albumin		
Approx. Protein Concentrations	IgG concentration 0.05 mg/ml		

Immunogen	CHO cells transfected with human CCR5
External Database Links	<p>UniProt: P51681 Related reagents</p> <p>Entrez Gene: 1234 CCR5 Related reagents</p>
Synonyms	CMKBR5
RRID	AB_324805
Fusion Partners	Spleen cells from immunized rats were fused with cell of the rat Y3 myeloma cell line
Specificity	<p>Rat anti Human CD195 antibody, clone HEK/1/85a recognizes the human CD195 cell surface antigen, a 45 kDa glycoprotein also known as CCR5.</p> <p>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.</p>
Flow Cytometry	Use 10µl of the suggested working dilution to label 100µl fresh whole blood
References	<ol style="list-style-type: none"> Mueller, A. <i>et al.</i> (2002) Pathways for internalization and recycling of the chemokine receptor CCR5. Blood 99 (3): 785-91. Ramirez, R. <i>et al.</i> (2006) Microinflammation in hemodialysis is related to a preactivated subset of monocytes. Hemodial Int. 10 Suppl 1:S24-7. Liptrott, N.J. <i>et al.</i> (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. Pilch-Cooper, H.A. <i>et al.</i> (2011) Circulating human CD4 and CD8 T cells do not have large intracellular pools of CCR5. Blood 118: 1015-9. Bönsch, C. <i>et al.</i> (2015) Potent Anti-HIV Chemokine Analogs Direct Post-Endocytic Sorting of CCR5. PLoS One 10 (4): e0125396. Holmannova, D. <i>et al.</i> (2017) Effects of conventional CPB and mini-CPB on neutrophils CD162, CD166 and CD195 expression. Perfusion. 32 (2): 141-50.
Storage	<p>This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.</p>
Guarantee	12 months from date of despatch

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Health And Safety Information Material Safety Datasheet documentation #10041 available at: <https://www.bio-rad-antibodies.com/SDS/MCA2175A488>
10041

Regulatory For research purposes only

Related Products

Recommended Negative Controls

[RAT IgG2a NEGATIVE CONTROL:Alexa Fluor® 488 \(MCA6005A488\)](#)

Recommended Useful Reagents

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

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

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

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