

## Datasheet: MCA6127PE

**BATCH NUMBER 170229**

<b>Description:</b>	MOUSE ANTI HUMAN CD195:RPE
<b>Specificity:</b>	CD195
<b>Other names:</b>	CCR5
<b>Format:</b>	RPE
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	T21/8
<b>Isotype:</b>	IgG1
<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

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 R. Phycoerythrin (RPE) - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	RPE 488nm laser	496	578
	RPE 561nm laser	546	578
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant		
<b>Buffer Solution</b>	Phosphate buffered saline		
<b>Preservative</b>	<0.1% Sodium Azide (NaN <sub>3</sub> )		
<b>Stabilisers</b>	0.2% Bovine Serum Albumin		

**Immunogen** CCR5 peptide (Met1-Lys22) KLH conjugate

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**External Database**

**Links**

**UniProt:**

[P51681](#)

[Related reagents](#)

**Entrez Gene:**

[1234](#)

CCR5

[Related reagents](#)

**Synonyms**

CMKBR5

**Specificity**

**Mouse anti Human CD195, clone T21/8** recognizes CD195 also known as C-C chemokine receptor 5 (CCR5) which belongs to the GPCR protein family and plays a role in inflammation by targeting cells to sites of inflammation.

CD195 is expressed in a range of hematopoietic cells including macrophages, dendritic cells and memory T cells. It is also expressed by non-hematopoietic cells including vascular smooth muscle cells and astrocytes ([Barmania & Pepper 2013](#)).

During inflammation CD195 expression is upregulated in CD8+ cells, allowing the cells to migrate to sites with CD4+ T cell and dendritic cell interactions ([Castellino et al. 2006](#)). An additional well characterized feature of CD195 is its role as an essential co-receptor for macrophage tropic HIV strains, allowing the virus to enter the target cell during initial infection ([Dragic et al. 1996](#)).

This clone T28/1 has been used in flow cytometry experiments to examine expression levels in CD195 overexpressing PM1 cells. These cells were then used to examine the effect of CD195 expression levels on HIV infections ([Monde et al. 2007](#)).

**Purity**

>95% by SDS PAGE

**Flow Cytometry**

Use 10ul of the suggested working dilution to label  $1 \times 10^6$  cells in 100ul

**Storage**

Store at +4°C. DO NOT FREEZE.

This product should be stored undiluted. This product is photosensitive and should be protected from light.

**Guarantee**

Guaranteed for 12 months from the date of despatch or until the date of expiry, whichever comes first. Please see label for expiry date.

**Health And Safety Information**

Material Safety Datasheet documentation #10041 available at:

<https://www.bio-rad-antibodies.com/SDS/MCA6127PE>

10041

**Regulatory**

For research purposes only

## Related Products

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:RPE \(MCA928PE\)](#)

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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://bio-rad-antibodies.com/datasheets)

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