

Datasheet: MCA6127PE

Description:	MOUSE ANTI HUMAN CD195:RPE
Specificity:	CD195
Other names:	CCR5
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	T21/8
Isotype:	IgG1
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 R. Phycoerythrin (RPE) - liquid

Max Ex/Em

Fluorophore	Excitation Max (nm)	Emission Max (nm)
RPE 488nm laser	496	578
RPE 561nm laser	546	578

Preparation

Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

<0.1% Sodium Azide (NaN₃)
0.2% Bovine Serum Albumin

Immunogen

CCR5 peptide (Met1-Lys22) KLH conjugate

**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 1×10^6 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

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