

## Datasheet: MCA6119PE

**BATCH NUMBER 149844**

<b>Description:</b>	MOUSE ANTI HUMAN CD144:RPE
<b>Specificity:</b>	CD144
<b>Other names:</b>	VE-CADHERIN
<b>Format:</b>	RPE
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	55-7H1
<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 Human endothelial cells

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**External Database**

**Links**

**UniProt:**

[P33151](#)   [Related reagents](#)

**Entrez Gene:**

[1003](#) CDH5   [Related reagents](#)

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**Specificity**

**Mouse anti Human CD144, clone 55-7H1** recognizes [CD144](#), also known as cadherin 5, VE-cadherin or 7B4 antigen. CD144 is a 737 amino acid, ~130 kDa single pass type 1 transmembrane glycoprotein involved in cellular adhesion processes and is expressed by endothelial cells. CD 144 has a 25 amino acid signal peptide and a 22 amino acid pro-peptide region.

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**Purity**

>95% by SDS PAGE

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**Flow Cytometry**

Use 10ul of the undiluted reagent to label 1x10<sup>6</sup> cells in 100ul

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**References**

1. Pflaum, M. *et al.* (2021) Towards Biohybrid Lung Development-Fibronectin-Coating Bestows Hemocompatibility of Gas Exchange Hollow Fiber Membranes by Improving Flow-Resistant Endothelialization. [Membranes \(Basel\). 12 \(1\): 35.](#)

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**Storage**

Store at +4°C. DO NOT FREEZE.

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

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**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/MCA6119PE>  
10041

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**Regulatory**

For research purposes only

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

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