

Datasheet: MCA6119PE

BATCH NUMBER 158392

Description:	MOUSE ANTI HUMAN CD144:RPE
Specificity:	CD144
Other names:	VE-CADHERIN
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	55-7H1
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	<0.1% Sodium Azide (NaN ₃)		
Stabilisers	0.2% Bovine Serum Albumin		

Immunogen Human endothelial cells

External Database

Links

UniProt:

[P33151](#) [Related reagents](#)

Entrez Gene:

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

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.

Purity

>95% by SDS PAGE

Flow Cytometry

Use 10ul of the undiluted reagent to label 1×10^6 cells in 100ul

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.](#)

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

12 months from date of despatch

Health And Safety Information

Material Safety Datasheet documentation #10041 available at: <https://www.bio-rad-antibodies.com/SDS/MCA6119PE>
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://www.bio-rad-antibodies.com/datasheets)

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Printed on 18 Jan 2024
