Datasheet: MCA6119PE

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 Stabilisers

<0.1% Sodium Azide (NaN_3)
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.
Flow Cytometry	Use 10ul of the undiluted reagent to label $1x10^6$ 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. 2. Alabdullh, A.H. *et al.* (2023) Biohybrid Lung Development: Towards Complete Endothelialization of an Assembled Extracorporeal Membrane Oxygenator Bioengineering. 10 (1): 72.
Storage	This product is shipped at ambient temperature. 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/MCA6119PE
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:RPE (MCA928PE)

Product inquiries: www.bio-rad-antibodies.com/technical-support

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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Printed on 04 Jun 2026