

Datasheet: MCA1456F BATCH NUMBER 158940

Description:	ion: MOUSE ANTI HUMAN CD104:FITC		
Specificity:	CD104		
Other names:	INTEGRIN BETA 4		
Format:	FITC		
Product Type:	Monoclonal Antibody		
Clone:	450-9D		
Isotype:	lgG1		
Quantity:	0.1 mg		

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 <u>www.bio-</u> rad-antibodies.com/protocols.				
		Yes No	Not Determined	Suggested Dilution	
	Flow Cytometry	-		Neat - 1/10	
	Immunofluorescence	-			
	Where this antibody h	as not been tested	for use in a particular teo	chnique 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 antibody for use in their own system using appropriate negative/positive controls.				
Target Species	Human				
Species Cross Reactivity	Reacts with: Ferret, Mink Based on sequence similarity, is expected to react with:Mustelid N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.				
Product Form	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid				
Max Ex/Em	Fluorophore	Excitation Max (nm	n) Emission Max (nm)		
	FITC	490	525		
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture				

	supernatant	
Buffer Solution	Phosphate buffered saline	
Preservative Stabilisers	0.09% Sodium Azide 1% Bovine Serum Albumin	
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml	
Immunogen	Purified alpha6 beta4 integrin from A431 cells.	
External Database Links	UniProt: <u>P16144</u> <u>Related reagents</u> Entrez Gene: <u>3691</u> ITGB4 <u>Related reagents</u>	
RRID	AB_322543	
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with ce myeloma cell line.	lls of the mouse Sp2/0
Specificity	Mouse anti Human CD104 antibody, clone 450-9D recogniz integrin, also known as CD104. CD104 is a ~205 kDa glycopro the alpha6 integrin to form the alpha6/beta4 complex. CD104 cells, Schwann cells and various tumor cell lines.	otein which associates with
	Mouse anti Human CD104 antibody, clone 450-9D recognizes the CD104 molecule.	an extracellular epitope on
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in	n 100ul.
References	 Kennel, S.J. <i>et al.</i> (1990) Second generation monoclonal ar integrin alpha 6 beta 4. <u>Hybridoma. 9 (3): 243-55.</u> Barbaro, V. <i>et al.</i> (2009) Reconstruction of a human hemicol scaffolds compatible with the growth of corneal epithelial stem keratocytes. <u>Mol Vis. 15: 2084-93.</u> Martel, C.J. & Aasted, B. (2009) Characterization of antibod immunoglobulins, cytokines and CD markers. <u>Vet Immunol Imm</u> Smith, K. <i>et al.</i> (2011) Mono- and tri-cationic porphyrin-mon photodynamic activity and mechanism of action. <u>Immunology.</u> Alam, H. <i>et al.</i> (2011) Loss of keratins 8 and 18 leads to alter mediated signalling and decreased neoplastic progression in a line. <u>J Cell Sci. 124: 2096-106.</u> Lai-cheong, J.E. <i>et al.</i> (2009) Loss-of-function FERMT1 mur- implicate a role for fermitin family homolog-1 in integrin activation 	brnea through natural cells and stromal lies against ferret <u>munopathol. 132:109-15.</u> oclonal antibody conjugates: <u>132: 256-65.</u> erations in α 6 β 4-integrin- an oral-tumour-derived cell tations in kindler syndrome

	 <u>1431-41.</u> 7. Groves, R.W. <i>et al.</i> (2010) A homozygous nonsense mutation coding for the coiled-coil domain of the epithelial isoform of BF subtype of autosomal recessive epidermolysis bullosa simplex <u>1551-7.</u> 8. Aasted, B. & Viuff, B. (2007) Reactivity of monoclonal antibox with cells from mink. <u>Vet Immunol Immunopathol. 119 (1-2): 27</u> 	PAG1 underlies a new <u>J Invest Dermatol. 130 (6):</u> odies to human CD antigens
Storage	This product is shipped at ambient temperature. It is recomme -20°C on receipt. When thawed, aliquot the sample as needed short term use (up to 4 weeks) and store the remaining aliquot Avoid repeated freezing and thawing as this may denature the frost-free freezers is not recommended. This product is photos protected from light.	I. Keep aliquots at 2-8°C for ts at -20°C. antibody. Storage in
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/MCA1456F 10041	
Regulatory	For research purposes only	

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL: FITC (MCA928F)

Recommended Useful Reagents

HUMAN SEROBLOCK (BUF070)	<u>A)</u>
HUMAN SEROBLOCK (BUF070)	B)

North & South	Tel: +1 800 265 7376	Worldwide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21
America	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50
	Email: antibody_sales_us@bio-ra	ad.com	Email: antibody_sales_uk@bio-ra	d.com	Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M385139:210513'

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