

Datasheet: MCA2655F

Description:	MOUSE ANTI HUMAN CD9:FITC
Specificity:	CD9
Other names:	MRP-1
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	Bu16
Isotype:	IgG2a
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 www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	■			Neat - 1/10

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 Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	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	0.09% Sodium Azide (NaN ₃)		
Stabilisers	1% Bovine Serum Albumin		
Approx. Protein Concentrations	IgG concentration 0.1mg/ml		
External Database Links	UniProt: P21926 Related reagents Entrez Gene: 928 CD9 Related reagents		

Synonyms	MIC3, TSPAN29
Specificity	Mouse anti Human CD9 antibody, clone Bu16 detects human CD9, also known as Motility-related protein-1 (MRP-1). CD9 is a 228 amino acid, including an N-terminal initiator methionine ~24-27 kDa multipass transmembrane glycoprotein and member of the tetraspanin family. It is thought that the main role of tetraspanins is to form signal transducing complexes with integrins at the cell surface, for this reason CD9 has multiple functions in cell adhesion and motility, platelet activation, gamete fusion and cell proliferation. CD9 has a functional role as a tumour metastatic suppressor and is expressed in melanomas, and colon, lung and breast carcinomas.
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul.
Further Reading	1. Huang, C.L. <i>et al.</i> (2004) MRP-1/CD9 gene transduction downregulates Wnt signal pathways. Oncogene. 23 (45): 7475-83. 2. Huang, C.L. <i>et al.</i> (2006) MRP-1/CD9 gene transduction regulates the actin cytoskeleton through the downregulation of WAVE2. Oncogene. 25 (49): 6480-8.
Storage	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: 10041: https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL:FITC \(MCA929F\)](#)

Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

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