

Datasheet: MCA555F

Description:	MOUSE ANTI HUMAN CD43:FITC	
Specificity:	CD43	
Other names:	LEUKOSIALIN	
Format:	FITC	
Product Type:	Monoclonal Antibody	
Clone:	DFT-1	
Isotype:	IgG1	
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

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

Target Species	Human			
Product Form	Purified IgG conjugat	ed to Fluorescein Isoth	niocyanate Isomer	1 (FITC) - liquid
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nn	1)
	FITC	490	525	
Preparation Buffer Solution	supernatant Phosphate buffered s	I by affinity chromatogo		
Preservative	0.09% Sodium Azide			
Stabilisers	1% Bovine Serum	Albumin		

Immunogen	KG-1 cells.	
External Database	UniProt:	
Links		
	P16150 Related reagents	
	Entrez Gene:	
	6693 SPN Related reagents	
Synonyms	CD43	
RRID	AB_321703	
Specificity	Mouse anti Human CD43 antibody, clone DFT-1 recognizes human CD43 also known as leukosialin or sialophorin. CD43 is a 381 amino acid single pass type I transmembrane glycoprotein present on the cell surface of multiple cell types including thymocytes, T-lymphocytes, neutrophils, plasma cells and platelets. It is lacking on the surface of most B-lymphocytes. CD34 is a major membrane sialoglycoprotein expressed on T lymphocytes as two predominant glycoforms, a ~115 kDa form present on all T-cells and a ~130 kDa form indicative of T-cell activation (Barren et al. 1997) and acts as a T-cell counter-receptor for CD169/Siglec-1 (van den Berg et al. 2001). Mouse anti Human CD43 antibody, clone DFT-1 binds to both glycoforms of human CD43 (Kyoizumi et al. 2004)	
	CD34 expression is deficient and/or defective in patients suffering from the X-linked chromosomal immunodeficiency condition Wiskott-Aldrich syndrome and acts as a ligand for CD54 (Rosenstein et al. 1991).	
	Mouse anti human CD43, clone DFT-1 has been used successfully for the evaluation of CD43 expression in patients with Myelodysplastic syndromes (<u>Kyriakou <i>et al.</i> 2006</u>).	
Flow Cytometry	Use 10ul of the suggested working dilution to label 100ul of whole blood or 10 ⁶ cells in 100ul.	
References	 Stross, W.P. <i>et al.</i> (1989) Molecule detected in formalin fixed tissue by antibodies MT1, DF-T1, and L60 (Leu-22) corresponds to CD43 antigen. <u>J Clin Pathol. 42 (9): 953-61.</u> Kojima N <i>et al.</i> (1994) Role of cell surface O-linked oligosaccharides in adhesion of HL60 cells to fibronectin: regulation of integrin-dependent cell adhesion by O-linked oligosaccharide elongation. <u>Exp Cell Res. 214 (2): 537-42.</u> Matsuo, A. <i>et al.</i> (1996) Expression of CD43 in human microglia and its downregulation in Alzheimer's disease. <u>J Neuroimmunol. 71 (1-2): 81-6.</u> Anzai, N. <i>et al.</i> (1999) Modulation of integrin function in hematopoietic progenitor cells by CD43 engagement: possible involvement of protein tyrosine kinase and phospholipase C-gamma. <u>Blood. 93 (10): 3317-26.</u> Nonomura, C. <i>et al.</i> (2008) CD43, but not P-selectin glycoprotein ligand-1, functions as an E-selectin counter-receptor in human pre-B-cell leukemia NALL-1. <u>Cancer Res. 68 (3):</u> 	

6. Woroniecka, R. et al. (2015) Cytogenetic and flow cytometry evaluation of Richter

syndrome reveals MYC, CDKN2A, IGH alterations with loss of CD52, CD62L and increase

<u>790-9.</u>

of CD71 antigen expression as the most frequent recurrent abnormalities. <u>Am J Clin Pathol. 143 (1): 25-35.</u>

Storage

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. 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/MCA555F 10041
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:FITC (MCA928F)

Recommended Useful Reagents

HUMAN SEROBLOCK (BUF070A) HUMAN SEROBLOCK (BUF070B)

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

Email: antibody_sales_us@bio-rad.com

Fax: +44 (0)1865 852 739
Email: antibody_sales_uk@bio-rad.com

Fax: +49 (0) 89 8090 95 50 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 'M385775:210513'

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