

Datasheet: MCA2659F

Description:	MOUSE ANTI HUMAN CD55:FITC		
Specificity:	CD55		
Other names:	DAF		
Format:	FITC		
Product Type:	Monoclonal Antibody		
Clone:	Bu14		
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 - 1/20

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 conjugate	ed to Fluorescein Isoth	niocyanate Isomer 1
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm
	FITC	490	525
Preparation Buffer Solution	Purified IgG prepared supernatant Phosphate buffered sa	. , ,	raphy on Protein A t
Preservative Stabilisers	0.09% Sodium Azide 1% Bovine Serum	(NaN ₃)	

External Database Links	UniProt: P08174 Related reagents Entrez Gene: 1604 CD55 Related reagents
Synonyms	CR, DAF
RRID	AB_2275855
Specificity	Mouse anti Human CD55 antibody, clone Bu14 recognizes human CD55, also known as Decay Accelerating Factor (DAF). CD55 is a glycosylphosphatylinositol (GPI) anchored type I surface protein which prevents complement mediated lysis of autologous cells. CD55 functions to limit the formation and accelerate the decay of C3/C5-convertases from the classic and alternative pathway.
	The molecular weight of CD55 varies between ~50 and 100 kDa dependent on cell type. Alternative transcripts can lead to soluble DAF, which is detectable in plasma, tears, saliva, urine and cerebrospinal fluid (Medof et al. 1987).
	CD55 acts as a ligand for CD97 (<u>Hamaan et al. 1998</u>) and is an entry receptor for Echovirus (<u>Bergelson et al. 1994</u>) and Coxsackie B virus (<u>Hafenstein et al. 2007</u>). CD55 has been linked to many diseases including multiple sclerosis, rheumatoid arthritis and cancer development (<u>Visser et al. 2002</u>).
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul.
References	1. Loveland, B.E. and Szokolai, K. (1998) CD55 Workshop Report NL11 In: Leukocyte Typing VI, Eds Kishmoto, T. <i>et al.</i> Garland publishing . 519-520.
Further Reading	 Ruiz-Argüelles, A. & Llorente, L. (2007) The role of complement regulatory proteins (CD55 and CD59) in the pathogenesis of autoimmune hemocytopenias. <u>Autoimmun Rev. 6 (3): 155-61.</u> Mikesch, J.H. <i>et al.</i> (2006) Decay-accelerating factor (CD55): a versatile acting molecule in human malignancies. <u>Biochim Biophys Acta. 1766 (1): 42-52.</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	Material Safety Datasheet documentation #10041 available at:

Information https://www.bio-rad-antibodies.com/SDS/MCA2659F

10041

Regulatory For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:FITC (MCA928F)

Email: antibody_sales_us@bio-rad.com

Recommended Useful Reagents

HUMAN SEROBLOCK (BUF070A) HUMAN SEROBLOCK (BUF070B)

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Worldwide

Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Europe

Tel: +49 (0) 89 8090 95 21

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 'M385902:210513'

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