

Datasheet: MCA2659F

BATCH NUMBER 0411

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 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 A from tissue culture supernatant		
Buffer Solution	Phosphate buffered saline		
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃) 1% Bovine Serum Albumin		
Approx. Protein	IgG concentration 0.1 mg/ml		

Concentrations

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 glycosylphosphatidylinositol (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 ([Hamaan et al. 1998](#)) and is an entry receptor for Echovirus ([Bergelson et al. 1994](#)) and Coxsackie B virus ([Hafenstein et al. 2007](#)). CD55 has been linked to many diseases including multiple sclerosis, rheumatoid arthritis and cancer development ([Visser et al. 2002](#)).

Flow Cytometry

Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul.

References

1. Loveland, B.E. and Szokolai, K. (1998) CD55 Workshop Report NL11 In: Leukocyte Typing VI, Eds Kishimoto, T. *et al.* Garland publishing . 519-520.

Further Reading

1. Ruiz-Argüelles, A. & Llorente, L. (2007) The role of complement regulatory proteins (CD55 and CD59) in the pathogenesis of autoimmune hemocytopenias. [Autoimmun Rev. 6 \(3\): 155-61.](#)
 2. Mikesch, J.H. *et al.* (2006) Decay-accelerating factor (CD55): a versatile acting molecule in human malignancies. [Biochim Biophys Acta. 1766 \(1\): 42-52.](#)
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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.

Guarantee

12 months from date of despatch

Health And Safety Information

Material Safety Datasheet documentation #10041 available at:

Regulatory

For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:FITC \(MCA928F\)](#)

Recommended Useful Reagents

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

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

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

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