

Datasheet: DC054

Description:	RAT ANTI MOUSE Ly-6C:Alexa Fluor® 488/CD31:RPE-Alexa Fluor® 647
Specificity:	Ly-6C/CD31
Format:	ALEXA FLUOR® 488 / RPE-ALEXA FLUOR®647
Product Type:	Dual Color Reagent
Clone:	ERMP20 / ERMP12
Isotype:	Cocktail
Quantity:	100 TESTS

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 - 1/5

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 systems using appropriate negative/positive controls.

Antibody Isotypes	A488 reagent Rat IgG2a RPE-A647 reagent Rat IgG2a		
Target Species	Mouse		
Product Form	Dual Colour combination consisting of Alexa Fluor®488 conjugated and RPE-Alexa Fluor®647 conjugated monoclonal antibodies mixed in optimal ratio - lyophilised.		
Reconstitution	Reconstitute with 1.0 ml distilled water		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	Alexa Fluor®488	495	519
	RPE 488nm laser	496	578
	RPE 561nm laser	546	578
Buffer Solution	Phosphate buffered saline		
Preservative Stabilisers	0.09% Sodium Azide		

1% Bovine Serum Albumin

5% Sucrose

External Database**Links****UniProt:**[P09568](#)[Related reagents](#)[Q08481](#)[Related reagents](#)**Entrez Gene:**[17067](#)

Ly6c1

[Related reagents](#)[18613](#)

Pecam1

[Related reagents](#)

Synonyms

Ly6c, Pecam, Pecam-1

RRID

AB_1055783

Specificity

DC054 is a dual colour reagent containing antibodies which recognise murine Ly-6C and CD31 cell surface antigens. Studies show that clone ER-MP12 can be used in conjunction with clone ER-MP20 in two colour flow cytometric analysis, to identify different stages of myeloid progenitor cells in mouse bone marrow.

Antibodies produced by clone ERMP20 recognise murine Ly-6C, a ~14 kDa differentiation antigen, which is expressed on macrophage/dendritic cell precursors in mid-stage development (late CFU-M, monoblasts and immature monocytes), granulocytes, and on a wide range of endothelial cells and subpopulations of B- and T-lymphocytes.

Antibodies produced by clone ERMP12 recognise murine CD31, a ~140 kDa cell surface glycoprotein that is expressed at high levels on endothelial cells, platelets, and most leukocyte subpopulations. CD31 is also expressed on a major population of macrophage / dendritic cell precursors in the bone marrow.

Flow Cytometry

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

The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity Fc receptors. This may be reduced by using SeroBlock FcR ([BUF041A/B](#)).

References

1. Nikolic, T. . (2003) Developmental stages of myeloid dendritic cells in mouse bone marrow. [Int. Immunol.15:515-524.](#)

Storage

Prior to reconstitution store at +4°C. Following reconstitution store at +4°C.

DO NOT FREEZE.

This product should be stored undiluted. 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

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Health And Safety Information Material Safety Datasheet documentation #10075 available at: 10075: <https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf>

Regulatory For research purposes only

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