

## Datasheet: DC054

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

0.09% Sodium Azide

### Stabilisers

1% Bovine Serum Albumin  
5% Sucrose

### External Database

#### Links

#### UniProt:

[P09568](#)

[Related reagents](#)

**Entrez Gene:**

[17067](#) Ly6c1   [Related reagents](#)

[18613](#) Pecam1   [Related reagents](#)

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**Synonyms**

Ly6c, Pecam, Pecam-1

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**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 14kD 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 140kD 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.

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**Flow Cytometry**

Use 10ul of the suggested working dilution to label 10<sup>6</sup> 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](#)).

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**References**

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

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**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.

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**Shelf Life**

12 months from date of reconstitution.

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**Acknowledgements**

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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>

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