

Datasheet: DC053

Description:	RAT ANTI MOUSE Ly-6C:Alexa Fluor® 488/CD31:RPE
Specificity:	Ly-6C/CD31
Format:	ALEXA FLUOR® 488 / RPE
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

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 reagent Rat IgG2a

Target Species

Mouse

Product Form

Dual Colour combination consisting of Alexa Fluor®488 conjugated and RPE 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](#)

[Q08481](#) [Related reagents](#)

Entrez Gene:

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

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

Synonyms Ly6c, Pecam, Pecam-1

Specificity Ly-6C/CD31 (clone ERMP20/ERMP12) is a dual colour reagent containing antibodies which recognise murine Ly-6C and CD31 cell surface antigens.

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.

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.

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](#)).

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.

Shelf Life 12 months from date of reconstitution.

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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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