

## Product datasheet for **BM4019R**

### Ly6c1 Rat Monoclonal Antibody [Clone ID: ER-MP20]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	ER-MP20
Applications:	FC
Recommended Dilution:	Flow Cytometry. <i>Suggested Positive Control:</i> Monocytes. Has been described to work in Immunohistology.
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Mouse macrophage cell lines
Specificity:	<p>This Monoclonal antibody ER-MP20 is useful for the detection of macrophage precursor cells in the mid-stage development stage (late CFU-M, monoblasts and monocytes). It is ideally suitable for the detection of monocytes in bone marrow samples by FACS. ER-MP20 also identifies activated macrophages in inflammatory tissues where the simultaneous use of the murine pan-macrophage marker BM8 (anti F4/80 antibody BM4007) is recommended. ER-MP20 also detects a wide range of endothelial cells.</p> <p>The red R-Phycoerythrin label is particularly useful to avoid the greenish autofluorescence of some cells in their resting state.</p> <p><b>Antigen Distribution on Isolated cells:</b> In bone marrow cells the antigen is found on monoblasts and late CFU-M cells as well as on monocytes. It is also found on granulocytes and a subpopulation of lymphocytes in the peripheral blood. Granulocytic cells show a dull, and monocytic cells a bright antigen surface expression. Lymphoid cells express the antigen only very weakly. Thus, in the bone marrow three useful FACS windows can be defined for cell sorting purposes.</p> <p><b>Antigen Distribution on Tissue Sections:</b> The antigen is found on macrophage precursor subpopulations in the bone marrow and hemopoietic islands of the lymphoid organs, and in the spleen. Endothelial cells of small vessels in various organs also stain positive with ER-MP20. Activated macrophages in inflammatory tissues also express the ER-MP20-related antigen.</p>



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<b>Formulation:</b>	PBS, pH 7.2 containing 10 mg/ml BSA as a stabilizer and 0.09% Sodium Azide as a preservative Label: PE State: Liquid purified Ig fraction Label: R-Phycoerythrin
<b>Concentration:</b>	0.2 mg/ml
<b>Purification:</b>	Affinity Chromatography
<b>Conjugation:</b>	PE
<b>Storage:</b>	Store the antibody undiluted at 2-8°C.
<b>Stability:</b>	Shelf life: 6 months from despatch.
<b>Gene Name:</b>	lymphocyte antigen 6 complex, locus C1
<b>Database Link:</b>	<a href="#">Entrez Gene 17067 Mouse P0CW02</a>
<b>Background:</b>	The antigen detected by ER-MP20 is a glutaraldehyde (0.05%) and paraformaldehyde (1%) resistant 14 kD surface protein which is very similar to Ly-6C and may be analogous to human CD59. It is inducible by IFN-alpha, IFN-beta and IFN-gamma. Ly-6C is a member of the Ly-6 multigene family of type V glycosphosphatidylinositol-anchored cell surface proteins. It is expressed on bone marrow cells, monocytes/macrophages, neutrophils, endothelial cells, and T-cell subsets. Mice with the Ly-6.2 allotype (e.g., AKR, C57BL, C57BR, C57L, DBA/2, PL, SJL, SWR, 129) have subsets of CD4+Ly-6C+ and CD8+Ly-6C+ cells, while Ly-6.1 strains (e.g., A, BALB/c, CBA, C3H/He, DBA/1, NZB) have only CD8+Ly-6C+ lymphocytes. Ly-6C may play a role in the development and maturation of lymphocytes.
<b>Synonyms:</b>	Lymphocyte antigen 6C2, Ly-6C2, Ly6C2, Mouse Macrophage Marker