

Monoclonal Antibody to Ly6G / GR1 Neutrophil Marker - PE

Alternate names:	Gr-1 Granulocyte marker
Catalog No.:	CL046RT
Quantity:	25 Tests
Background:	The Gr-1 antigen is primarily a marker of myeloid differentiation. In the bone marrow the level of Gr-1 expression is low on immature myeloblasts and increases as the myeloid cells mature to granulocytes. Gr-1 is also expressed on macrophages and transiently on differentiating monocytes. Expression of Gr-1 on a subpopulation of lymphocytes has also been reported.
Uniprot ID:	P35461
NCBI:	10090
Host / Isotype:	Rat / IgG2b
Clone:	RB6-8C5
Immunogen:	Normal murine bone marrow cells.
Format:	State: Lyophilized purified Ig fraction. Purification: Affinity Chromatography on Protein G. Buffer System: PBS, pH 7.4 containing 0.09% Sodium Azide as preservative and 1% BSA as stabilizer. Label: PE – R. Phycoerythrin (RPE) Reconstitution: Restore in 0.25 ml distilled water
Applications:	Flow Cytometry: Use 10 µl of Neat-1/5 diluted antibody to label 10e6 cells in 100 µl. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognises the mouse Gr-1 antigen. Clone RB6-8C5 reacts predominantly with the Ly-6G protein but weaker reactivity with the Ly-6C protein has been demonstrated. This Clone RB6-8C5 has been reported to deplete mouse mature neutrophils in vivo (3). We recommend the use of CL046LE for functional studies.
Species Reactivity:	Tested: Mouse.
Storage:	Store the antibody undiluted at 2-8°C. DO NOT FREEZE! This product is photosensitive and should be protected from light. Shelf life: One year from despatch.
General References:	1. Fleming, T.J. et al. (1993) Selective expression of Ly-6G on myeloid lineage cells in mouse bone marrow. J.Immunol.151:2399-2408.

For research and in vitro use only. Not for diagnostic or therapeutic work.

Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Antibody Hotline - Technical Questions - Antibody Location Service
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2. Hestdal, K. et al. (1991) Characterization and regulation of RB6-8C5 antigen expression on murine bone marrow cells. *J Immunol.*147:22-28.
3. Czuprynski, C.J. et al. (1994) Administration of anti-Granulocyte mAb RB6-8C5 impairs the resistance of mice to *Listeria monocytogenes* infection. *J Immunol.*152:1836-1846.
4. Sumagin, R. et al. (2010) LFA-1 and Mac-1 Define Characteristically Different Intraluminal Crawling and Emigration Patterns for Monocytes and Neutrophils In Situ. *J Immunol.* 185: 7057-7066.
5. Takano, K. et al. (2011) Successful treatment of acute lung injury with pitavastatin in septic mice: potential role of glucocorticoid receptor expression in alveolar macrophages. *J Pharmacol Exp Ther.* 336: 381-90.

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