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## Ly-6G/Ly-6C (Gr-1) (RB6-8C5) Rat mAb (violetFluor<sup>™</sup> 450 Conjugate)



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## For Research Use Only. Not for Use in Diagnostic Procedures.

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Applications: FC-L	<b>Reactivity:</b> M	<b>Sensitivity:</b> Endogenous	<b>Source/Isotype:</b> Rat IgG2b	<b>UniProt ID:</b> #P35461	<b>Entrez-Gene Id:</b> 546644		
Product Usage		For optimal flow cytometry results, we recommend 0.06 μg of antibody per test.					
Information		<b>Application</b> Flow Cytometry (Live)			Dilution 1:300		
Storage		Supplied in 10 mM NaH2PO4, 150 mM NaCl, 0.09% NaN3, 0.1% gelatin, pH 7.2. This product is stable for 12 months when stored at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.					
Specificity/Sensi	tivity	Ly-6G/Ly-6C (Gr-1) (RB6-8C5) Rat mAb (violetFluor™ 450 Conjugate) recognizes endogenous levels of total Ly-6G/Ly-6C (Gr-1) protein. This antibody detects an epitope within the extracellular domain.					
Source / Purifica	tion	This monoclonal antibody was purified from tissue culture supernatant via affinity chromatography. The purified antibody was conjugated under optimal conditions, with unreacted dye removed from the preparation.					
Description		This Cell Signaling Technology antibody is conjugated to violetFluor™ 450 and tested in-house for direct flow cytometric analysis in mouse cells.					
Background		The Ly-6 complex is a series of genes found on chromosome 15. These genes code for a number of different proteins that can be used as surface markers. The family members vary in their biologic expression and have been shown to be involved in cell signaling and cell adhesion (1). The structure of these proteins includes a motif known as the LU domain that has three loops comprised of disulfide bonds. These bonds are formed by 8 to 10 cysteines that can cause differences in the length of the loops as well as the sequences at each tip (2,4). There are 11 known Ly-6 genes on murine chromosome 15 that code for different proteins. These family members, excluding secreted Ly6/Plaur domain containing 1 coded by the <i>Slurp1</i> gene, are attached to the cell surface by a GPI anchor near the C terminus. The structure of these proteins may play a role in transmembrane interactions, and downstream signaling cascades (1,2).Ly-6 proteins have been widely used as differentiation markers on hematopoietic cells. The ability to isolate and express specific Ly-6 antibodies through hybridoma technology has allowed researchers to identify unique proteins (1). These proteins are expressed on subsets of immune cells at different stages of development, such as T cells, B cells, monocytes, granulocytes, and macrophages (1-5). The 1A8 clone is specific to Ly-6G, which is used as a marker for mouse neutrophils (2,3). It is also expressed by mouse polymorphonuclear myeloid-derived suppressor cells (PMN-MDSCs) (6). The RB6-8C5 clone recognized both Ly-6G and Ly-6C, also known as Gr-1, and has been found to express on neutrophils, monocytes, dendritic cells, and T cells (2,3).					
Background Ref	erences	2. Lee, P.Y. et al. (2013) <i>J I</i> 3. Fleming, T.J. et al. (199 4. Tsetlin, V. (1999) <i>Eur J I</i> 5. Pflugh, D.L. et al. (2000	Bamezai, A. Arch Immunol Ther Exp (Warsz) 52, 255-66. Lee, P.Y. et al. (2013) J Leukoc Biol 94, 585-94. Fleming, T.J. et al. (1993) J Immunol 151, 2399-408. Tsetlin, V. (1999) Eur J Biochem 264, 281-6. Pflugh, D.L. et al. (2000) J Immunol 165, 313-21. Bronte, V. et al. (2016) Nat Commun 7, 12150.				
Species Reactivit	v	Species reactivity is determined by testing in at least one approved application (e.g., western blot).					
Applications Key	-	FC-L: Flow Cytometry (Live)					
Cross-Reactivity		M: Mouse					
Trademarks and	-						
irademarks and	ratents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc. All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.					

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