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Ly-6G/Ly-6C (Gr-1) (RB6-8C5) Rat mAb



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Applications: IF-F	Reactivity: M	Sensitivity: Endogenous	Source/Isotype: Rat IgG2b	UniProt ID: #P35461	Entrez-Gene Id: 546644
Product Usage Information		Application Immunofluorescence (Fi	rozen)		Dilution 1:50 - 1:200
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less tha 0.02% sodium azide. Store at –20°C. <i>Do not aliquot the antibody.</i> This product is stable for 60 mont when stored at -20C.			
Specificity/Sensitivity		Ly-6G/Ly-6C (Gr-1) (RB6-8C5) Rat mAb recognizes endogenous levels of total Ly-6G and Ly-6C proteins. This antibody detects an epitope within the extracellular domain.			
Source / Purification		This monoclonal antibody was purified from tissue culture supernatant via affinity chromatography.			
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).			
		expressed by mouse pol 8C5 clone recognized bo	ymorphonuclear myeloid	-derived suppressor known as Gr-1, and h	e neutrophils (2,3). It is also cells (PMN-MDSCs) (6). The RB6- as been found to express on
Background References		 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 Reactivity	<i>'</i>	Species reactivity is dete	rmined by testing in at le	ast one approved ap	plication (e.g., western blot).

Applications Key IF-F: Immunofluorescence (Frozen)

Cross-Reactivity Key M: Mouse

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