

Anti-Mouse Ly-6G (Gr-1) Antibody

Catalog Number:	200701, 200702
Size:	100 ug, 500 ug
Target Name:	Ly-6G, Lymphocyte antigen 6 complex, locus G, Gr-1
Regulatory Status:	RUO

PRODUCT DETAILS

Clone:	1A8
Application:	Flow Cytometry
Reactivity:	Mouse
Format:	Purified
Isotype:	Rat IgG2a
Antibody Type:	Monoclonal
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Protein Concentration:	0.5 mg/mL
Storage&Handling:	The antibody solution should be stored between 2°C and 8°C
Recommended Usage:	For flow cytometric staining, it is recommended to use less than 0.2 ug of this reagent per 0.5-1.0 million cells in a 100 µL volume. Optimal reagent performance should be determined by titration for each specific application.
Isotype Control:	300201

BACKGROUND INFORMATION

Lymphocyte antigen 6 complex, locus G (Ly-6G), also known as Gr-1, is a 21–25 kDa glycosylphosphatidylinositol (GPI)-anchored surface protein. In mice, it is expressed predominantly on peripheral granulocytes, especially neutrophils, and on the majority of myeloid cells in the bone marrow. Ly-6G is transiently detected on developing monocytes but is stably and highly expressed on mature neutrophils. It plays important roles in neutrophil infiltration, recruitment, and migration, and associates with $\beta 2$ integrins CD11a and CD11b to regulate their expression and function. The natural ligand for Ly-6G remains unknown, and it is widely used as a specific marker for murine neutrophils in immunological studies.