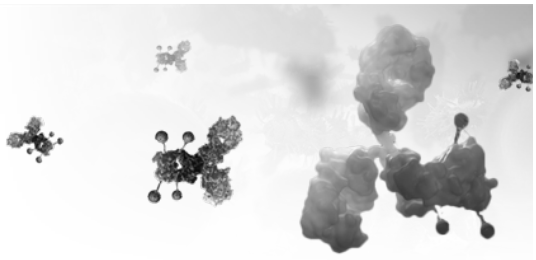

Rat Anti-Mouse Ly6G Monoclonal antibody, clone 1A8 (CABT-L4284)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	The 1A8 monoclonal antibody reacts with mouse Ly6G.
Target	Mouse Ly6G
Immunogen	EL4J cells transfected with Ly6G
Isotype	IgG2a, κ
Source/Host	Rat
Species Reactivity	Mouse
Clone	1A8
Purification	Protein G purified. Purity>95%. Determined by SDS-PAGE
Conjugate	Functional Grade
Applications	in vivo neutrophil depletion, in vivo MDSC depletion, IF, Immunohistochemistry (paraffin), IHC-F, FC
Molecular Weight	150 kDa
Format	0.2 μM filtered liquid. Purified from tissue culture supernatant in an animal free facility
Concentration	Lot specific
Size	5 mg
Buffer	PBS, pH 7.0. Contains no stabilizers or preservatives. [low endotoxin azide-free]

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	Endotoxin level: <2EU/mg (<0.002EU/μg). Determined by LAL gel clotting assay Related dilution buffer: CABT-LB04
Preservative	None
Storage	The antibody solution should be stored undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.
Ship	Wet ice

BACKGROUND

Introduction	The 1A8 monoclonal antibody reacts with mouse Ly6G. Ly6G is a 21-25 kDa member of the Ly-6 superfamily of GPI-anchored cell surface proteins with roles in cell signaling and cell adhesion. Ly6G is expressed differentially during development by cells in the myeloid lineage including monocytes, macrophages, granulocytes, and neutrophils. Monocytes typically express Ly6G transiently during development while mature granulocytes and peripheral neutrophils retain expression making Ly6G a good cell surface marker for these populations. Unlike the RB6-8C5 antibody, the 1A8 antibody reacts specifically with mouse Ly6G with no reported cross reactivity with Ly6C.
Keywords	LY6G;lymphocyte antigen 6 complex, locus G;Gr1;Gr-1;Ly-6G;lymphocyte antigen 6G;ly-6G.1;

GENE INFORMATION

Official Symbol	lymphocyte antigen 6 complex, locus G
Synonyms	LY6G; lymphocyte antigen 6 complex, locus G; Gr1; Gr-1; Ly-6G; lymphocyte antigen 6G; ly-6G.1;
References	Davis, R. W. t., et al. (2018). "Luminol Chemiluminescence Reports Photodynamic Therapy-Generated Neutrophil Activity In Vivo and Serves as a Biomarker of Therapeutic Efficacy." Photochem Photobiol. PubMed;Chen, K. W., et al. (2014). "The neutrophil NLRC4 inflammasome selectively promotes IL-1beta maturation without pyroptosis during acute Salmonella challenge." Cell Rep 8(2): 570-582. PubMed;Deng, L., et al. (2014). "Irradiation and anti-PD-L1 treatment synergistically promote antitumor immunity in mice." J Clin Invest 124(2): 687-695. PubMed;Deshmukh, H. S., et al. (2014). "The microbiota regulates neutrophil homeostasis and host resistance to Escherichia coli K1 sepsis in neonatal mice." Nat Med 20(5): 524-530. PubMed;Moser, E. K., et al. (2014). "Late engagement of CD86 after influenza virus clearance promotes recovery in a FoxP3+ regulatory T cell dependent manner." PLoS Pathog 10(8): e1004315. PubMed

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