



## Rat Anti-Mouse Ly6G/Ly6C Monoclonal antibody, clone NIMP-R14 (CABT-L4544)

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

### PRODUCT INFORMATION

<b>Product Overview</b>	The NIMP-R14 monoclonal antibody is specific for murine neutrophils. The antibody is reported to react strongly with mouse Ly6G and Ly6C previously referred to as GR-1.
<b>Target</b>	Mouse Ly6G/Ly6C
<b>Immunogen</b>	Purified BALB/c mouse neutrophils
<b>Isotype</b>	IgG2b, K
<b>Source/Host</b>	Rat
<b>Species Reactivity</b>	Mouse
<b>Clone</b>	NIMP-R14
<b>Purification</b>	Protein A purified. Purity>95%. Determined by SDS-PAGE
<b>Conjugate</b>	Functional Grade
<b>Applications</b>	in vivo neutrophil depletion, Immunohistochemistry (paraffin), IHC-F, IF, FC
<b>Molecular Weight</b>	150 kDa
<b>Format</b>	0.2 µM filtered liquid. Purified from tissue culture supernatant in an animal free facility
<b>Concentration</b>	Lot specific
<b>Size</b>	1 mg, 5 mg
<b>Buffer</b>	PBS, pH 7.0. Contains no stabilizers or preservatives. [low endotoxin azide-free]

Endotoxin level: <2EU/mg (<0.002EU/µg). Determined by LAL gel clotting assay  
Related dilution buffer: CABT-LB04

<b>Preservative</b>	None
<b>Storage</b>	The antibody solution should be stored undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.
<b>Ship</b>	Wet ice

## BACKGROUND

<b>Introduction</b>	The NIMP-R14 monoclonal antibody is specific for murine neutrophils. The antibody is reported to react strongly with mouse Ly6G and Ly6C previously referred to as GR-1. 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. Ly6C is a monocyte/macrophage and endothelial cell differentiation antigen regulated by interferon gamma and is thought to play a role in the development and maturation of lymphocytes. The NIMP-R14 antibody has been shown to be useful for depletion of neutrophils in mice.
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<b>Keywords</b>	LY6G;lymphocyte antigen 6 complex, locus G;Gr1;Gr-1;Ly-6G;lymphocyte antigen 6G;ly-6G.1;
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## GENE INFORMATION

<b>Official Symbol</b>	lymphocyte antigen 6 complex, locus G
<b>Synonyms</b>	LY6G; lymphocyte antigen 6 complex, locus G; Gr1; Gr-1; Ly-6G; lymphocyte antigen 6G; ly-6G.1;
<b>References</b>	Castell, S. D., et al. (2019). "Neutrophils Which Migrate to Lymph Nodes Modulate CD4(+) T Cell Response by a PD-L1 Dependent Mechanism." <i>Front Immunol</i> 10: 105. PubMed;