



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

Product Overview	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.
Target	Mouse Ly6G/Ly6C
Immunogen	Purified BALB/c mouse neutrophils
Isotype	IgG2b, κ
Source/Host	Rat
Species Reactivity	Mouse
Clone	NIMP-R14
Purification	Protein A purified. Purity>95%. Determined by SDS-PAGE
Conjugate	Functional Grade
Applications	in vivo neutrophil depletion, Immunohistochemistry (paraffin), IHC-F, IF, 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	1 mg, 5 mg
Buffer	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

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 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.

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	Castell, S. D., et al. (2019). "Neutrophils Which Migrate to Lymph Nodes Modulate CD4(+) T Cell Response by a PD-L1 Dependent Mechanism." Front Immunol 10: 105. PubMed;