

Anti-Ms Ly6G Purified Low Endotoxin Monoclonal Antibody

Catalog Number: M30404

Introduction

The clone MYG13 recognizes CD22 cell surface antigen, a 130-140kDa protein. The expression of CD22 is primarily restricted to the normal and neoplastic B cells but does not express on other hematopoietic cells. The initiation of expression of CD22 starts in the cytoplasm of pro-B and pre-B cells. Although CD22 is not expressed by plasma cells, it is abundantly expressed by the follicular mantle and marginal zone B-cells. Being a member of the immunoglobulin superfamily, CD22 serves as an adhesion receptor for sialic acid-bearing ligands expressed on erythrocytes and leukocytes. The role of CD22 in the activation of B-cells is primarily associated with tyrosine kinases mediated signal transduction pathways.

This antibody is routinely tested by flow cytometric analysis. Flow cytometry and other applications were tested during antibody development by CapricoBio or are reported in the literature.

Application Information

Each lot of this antibody has been pre-titrated and tested by flow cytometric analysis of human PBMCs such that 5ul of this product is sufficient for staining of 1 million cells in a 100ul staining volume or 100ul of whole blood. It is recommended that antibody reactivity be empirically titrated for optimal performance in the application of interest.

About LY6G

Ly6G is a component of the myeloid differentiation antigen Gr-1, together with Ly6C. Ly6G is a good marker for detection of peripheral neutrophils. Expression of Gr-1 in bone marrow correlates with granulocyte differentiation and maturation. Physiological role of Ly6G remains still unclear. Its treatment with antibodies in vivo leads to neutropenia and has inhibitory effect on local immune responses.

Overview

Product Name	Anti-Ms Ly6G Purified Low Endotoxin Monoclonal Antibody
Reactive Species	Mouse
Description	Boster Bio Anti-Ms Ly6G Purified Low Endotoxin Monoclonal Antibody (Catalog# M30404). Tested in Flow Cytometry, IP, WB, IHC-P, IHC-F, Functional Assay application(s). This antibody reacts with Mouse.
Conjugate	APC
Application	Flow Cytometry, IP, IHC-P, IHC-F, WB, Functional Assay
Clonality	Monoclonal RB6-8C5
Formulation	Phosphate buffered saline (PBS), pH 7.4
Storage Instructions	Store at 2-8°C. Do not freeze.
Host	Rat

Uniprot ID	A0A087WQF5
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Technical Details

Immunogen	Murine granulocytes. The rat monoclonal antibody RB6-8C5 detects Ly6G component of Gr-1 antigen, a commonly used surface marker of neutrophils.
Predicted Reactive Species	Bovine
Isotype	Rat IgG2b
Form	Liquid
Concentration	1 mg/ml
Purification	Purified by protein-A affinity chromatography.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Functional application: Neutrophil depletion.</p> <p>Immunoprecipitation: 1-2 ug / 100-500 ug of protein.</p> <p>Western blotting: 1 ug/ml.</p> <p>Flow cytometry: 1-4 µg/ml</p>

Anti-Ms Ly6G Purified Low Endotoxin Monoclonal Antibody (M30404) Images

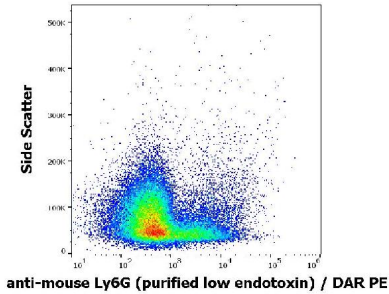


Figure 1. Flow Cytometry validation of Ly6G using Anti-Ms Ly6G Purified Low Endotoxin Monoclonal Antibody (M30404).

Flow cytometry surface staining pattern of murine splenocyte suspension stained using anti-mouse Ly6G (RB6-8C5) purified antibody (low endotoxin)

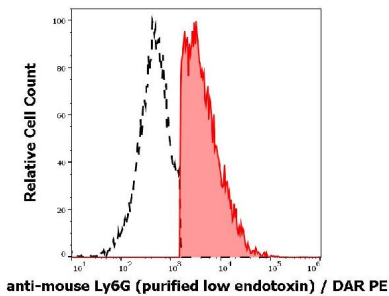


Figure 2. Flow Cytometry validation of Ly6G using Anti-Ms Ly6G Purified Low Endotoxin Monoclonal Antibody (M30404).

Separation of murine Ly6G positive cells (red-filled) from Ly6G negative cells (black-dashed) in flow cytometry analysis (surface staining) of murine splenocyte suspension stained using anti-mouse Ly6G (RB6-8C5) purified antibody (low endotoxin)

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