

Anti-Ms CD105 Purified Eng Monoclonal Antibody

Catalog Number: M02997-3

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 Eng

CD105 (endoglin) is a homodimeric transmembrane glycoprotein serving in presence of TGFbetaR-2 as a receptor for TGFbeta-1 and TGFbeta-3. CD105 is highly expressed on endothelial cells and promotes angiogenesis during wound healing, infarcts and in a wide range of tumours and its gene expression is stimulated by hypoxia. CD105 prevents apoptosis in hypoxic endothelial cells and also antagonises the inhibitory effects of TGFbeta-1 on vascular endothelial cell growth and migration. Normal cellular levels of CD105 are required for formation of new blood vessels.

Overview

Product Name	Anti-Ms CD105 Purified Eng Monoclonal Antibody
Reactive Species	Mouse
Description	Boster Bio Anti-Ms CD105 Purified Eng Monoclonal Antibody (Catalog# M02997-3). Tested in Flow Cytometry, IP, WB, IHC-F application(s). This antibody reacts with Mouse.
Conjugate	APC
Application	Flow Cytometry, IP, IHC-F, WB
Clonality	Monoclonal MJ7/18
Formulation	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage Instructions	Store at 2-8°C. Do not freeze.
Host	Rat

Uniprot ID	Q63961
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Technical Details

Immunogen	Inflamed mouse skin. The rat monoclonal antibody MJ7/18 reacts with an extracellular epitope of CD105 (Endoglin), a 90 kDa type I homodimerizing membrane glycoprotein expressed on vascular endothelial cells (small and large vessels), activated monocytes and tissue macrophages, stromal cells of certain tissues including bone marrow, pre-B lymphocytes in fetal marrow and erythroid precursors in fetal and adult bone marrow.
Predicted Reactive Species	Bovine
Isotype	Rat IgG2a kappa
Form	Liquid
Concentration	1 mg/ml
Purification	Purified by protein-G affinity chromatography.
Suggested Dilutions	Flow cytometry: 1-4 ug/ml.

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