

Anti-Ms CD86 Purified Monoclonal Antibody

Catalog Number: M00220-2

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 CD86

CD80 (B7-1) and CD86 (B7-2) are ligands of T cell critical costimulatory molecule CD28 and of an inhibitory receptor CTLA-4 (CD152). The both B7 molecules are expressed on professional antigen-presenting cells and are essential for T cell activation, the both molecules can also substitute for each other in this process. The question what are the differences in CD80 and CD86 competency has not been fully elucidated yet; there are still conflicts in results about their respective roles in initiation or sustaining of the T cell immune response.

Overview

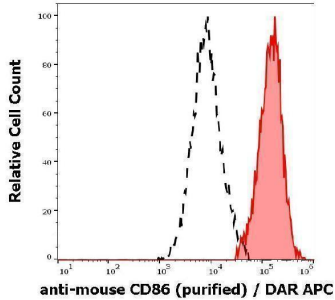
Product Name	Anti-Ms CD86 Purified Monoclonal Antibody
Reactive Species	Mouse
Description	Boster Bio Anti-Ms CD86 Purified Monoclonal Antibody (Catalog# M00220-2). Tested in Flow Cytometry, IP, IHC-F, ICC application(s). This antibody reacts with Mouse.
Conjugate	APC
Application	Flow Cytometry, IP, IHC-F, ICC
Clonality	Monoclonal GL-1
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	P42082
------------	--------

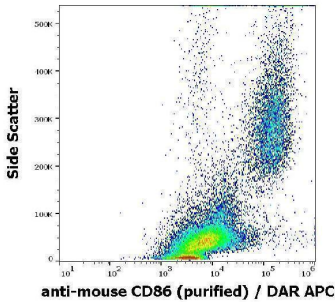
Technical Details

Immunogen	LPS-activated CBA/Cs mouse splenic B cells. The rat monoclonal antibody GL-1 reacts with an extracellular epitope of CD86 (B7-2), a 70-80 kDa type I transmembrane glycoprotein of immunoglobulin supergene family, expressed on professional antigen-presenting cells, such as dendritic cells, macrophages or activated B lymphocytes.
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: 2 ug/ml; positive control: murine splenocytes.

Anti-Ms CD86 Purified Monoclonal Antibody (M00220-2) Images



Separation of murine CD86 positive myeloid cells (red-filled) from murine CD86 negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of murine peritoneal fluid cells suspension stained using anti-mouse CD86 (GL-1) purified antibody (concentration in sample 0,6 µg/ml) DAR APC.



Flow cytometry surface staining pattern of murine peritoneal fluid cells suspension stained using anti-mouse CD86 (GL-1) purified antibody (concentration in sample 0,6 µg/ml) DAR APC.

Submit a product review to Biocompare.com

Submit a review of this product to Biocompare.com to receive a \$20 Amazon.com giftcard! Your reviews help your fellow scientists make the right decisions. Thank you for your contribution.



Anti-Ms CD86 Purified Monoclonal Antibody

For Research Use Only. Not for use in diagnostic procedures.