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antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
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Anti-human CD117 KIT Monoclonal Antibody Unconjugated, Flow Validated

Catalog Number: FC01335

Introduction

Clone BA7.3C.9 reacts with CD117, a 145 kDa type I transmembrane glycoprotein in the receptor tyrosine kinase (RTK) family. The CD117 antigen is also known as c-kit and stem cell factor receptor (SCFR). The CD117 antigen is expressed primarily on hematopoietic progenitor cells, mast cells and neural crest-derived melanocytes.

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 quality control tested by flow cytometric analysis of human PBMCs. For flow cytometric staining, the recommended use of this antibody is 0.5ug per 1x106 cells in 100ul of staining volume. It is strongly suggested that the antibody reactivity be empirically titrated for optimal performance in the application of interest.

About KIT

SCFR (Mast/stem cell growth factor receptor), also known as proto-oncogene c-Kit or tyrosine-protein kinase Kit or CD117, is a protein that in humans is encoded by the KIT gene. KIT was first described as the cellular homolog of the feline sarcoma viral oncogene v-kit. The KIT gene is mapped on 4q12. Kit was expressed on the surface of germ cells up to the pachytene stage. Signaling from the KIT receptor tyrosine kinase is essential for primordial germ cell growth both in vivo and in vitro. Determination of the KIT effectors acting in primordial germ cells has been hampered by the lack of effective methods to manipulate easily gene expression in these cells.

Overview

Product Name	Anti-human CD117 KIT Monoclonal Antibody Unconjugated, Flow Validated
Reactive Species	Human
Description	Boster Bio Anti-human CD117 KIT Monoclonal Antibody Unconjugated, Flow Validated (Catalog# FC01335). Tested in Flow Cytometry application(s). This antibody reacts with Human.
Application	Flow Cytometry
Clonality	Monoclonal Clone: BA7.3C.9
Formulation	PBS pH 7.2, 0.1% (w/v) BSA, 0.09% (w/v) sodium azide
Storage Instructions	Store at 2-8°C. Avoid repeated freeze-thaw cycles.
Host	Mouse
Uniprot ID	P10721

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Technical Details

Immunogen	Spleen cells were fused with NS-1mouse myeloma cells
Predicted Reactive Species	Bovine, Chicken, Xenopus Laevis, Xenopus Tropicalis, Zebrafish
Isotype	IgG2a,k
Form	Liquid
Concentration	0.5-1mg/ml, actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.
Purification	Protein A purified
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: User needs to optimize the dilution ratio for this antibody.

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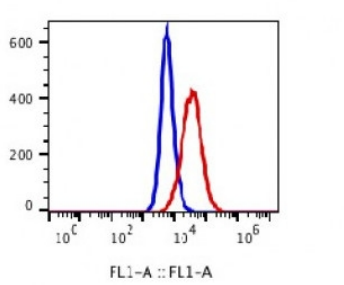
Anti-human CD117 KIT Monoclonal Antibody Unconjugated, Flow Validated (FC01335) Images



K562 cells stained with purified mouse anti-human CD117 (clone BA7.3C.9) followed by staining with Goat anti-mouse IgG (H+L) Alexa Fluor 488 (red histogram). K562 cells stained with mouse IgG2a isotype control followed by staining with Goat anti-mouse IgG (H+L) Alexa Fluor 488 (Blue histogram).

1 Publications Citing This Product

1. PubMed ID: 28115023, Astaxanthin attenuates total body irradiation-induced hematopoietic system injury in mice via inhibition of oxidative stress and apoptosis

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