

Mouse anti-human CD7 Monoclonal Antibody Biotin Conjugated, Flow Validated

Catalog Number: FC01974-1-Biotin

Introduction

The antibody recognizes CD7, a human T and NK lymphocyte antigen of 40 kDa. The CD7 antigen is expressed throughout T lymphocyte differentiation, and is present on 85% to 90% of peripheral blood T lymphocytes. In normal individuals, the CD7 antibody reacts with all CD8+ lymphocytes, approximately 90% of CD4+ lymphocytes, and most NK lymphocytes. CD7 is weakly reactive with monocytes and does not react with granulocytes or B lymphocytes. It is expressed on 50% of thymocytes in suspension. In leukemias, the CD7 antigen is present on the majority of T lymphoid lineages.

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 dose of this antibody is 0.5 μ g per 1x10⁶ cells in 100 μ l staining volume followed by staining with any fluorescent conjugated streptavidin. However, it is strongly suggested that the antibody reactivity be empirically titrated for optimal performance in the application of interest.

About CD7

CD7 (Cluster of Differentiation 7) is a protein that in humans is encoded by the CD7 gene. This gene encodes a transmembrane protein which is a member of the immunoglobulin superfamily. This protein is found on thymocytes and mature T cells. It plays an essential role in T-cell interactions and also in T-cell/B-cell interaction during early lymphoid development.

Overview

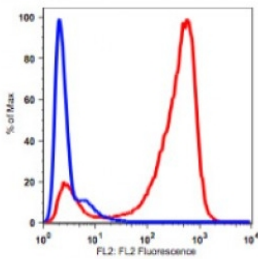
Product Name	Mouse anti-human CD7 Monoclonal Antibody Biotin Conjugated, Flow Validated
Reactive Species	Human
Description	Boster Bio Mouse anti-human CD7 Monoclonal Antibody Biotin Conjugated, Flow Validated catalog # FC01974-1-Biotin. Tested in Flow Cytometry applications. This antibody reacts with Human.
Conjugate	Biotin
Application	Flow Cytometry
Clonality	Monoclonal 124-1D1
Formulation	PBS, pH7.2, 0.09% NaN ₃
Storage Instructions	Store at 4°C for one year. Do not freeze.

Host	Mouse
Uniprot ID	P09564

Technical Details

Immunogen	Human Leukocytes.
Isotype	IgG1,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 need to optimize the dilution ratio for this antibody For protocols, please visit https://www.bosterbio.com/protocol-and-troubleshooting/

Mouse anti-human CD7 Monoclonal Antibody Biotin Conjugated, Flow Validated (FC01974-1-Biotin) Images



Lymphocytes gated PBMCs stained with biotin conjugated anti-human CD7 (clone 4H9) followed by staining with SA-PE (red histogram). Lymphocytes gated PBMCs stained with biotin conjugated mouse IgG2a isotype control followed by staining with SAPE (Blue histogram).

1 Publications Citing This Product

1. PubMed ID: 31933914, Human papillomavirus genotypes and p16 expression in oral leukoplakia and squamous cell carcinoma Li-Qun Yang,1,2,3,4,* Xuan Xiao,5,* Chen-Xi Li,1,2 Wen-Yan Wu,1,2 Xue-Min Shen,1,2 Zeng-Tong Zhou,1,2 Yuan Fan,3,4 Lin-Jun Shi1,2 Int J Clin Exp Pathol.

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