

Anti-Hu CD7 Purified Monoclonal Antibody

Catalog Number: M01974-1

About CD7

CD7, also known as gp40, is a member of the immunoglobulin superfamily found on T cells, NK cells, thymocytes, hematopoietic progenitors, and monocytes (weakly). CD7 is also expressed on acute lymphocytic leukemia (ALL). CD7 crosslinking induces a calcium flux in T lymphocytes, presumably as a result of cytoplasmic domain association with PI3-kinase. CD7 co-stimulation can induce cytokine secretion and modulate cellular adhesion. A ligand of CD7, epithelial cell secreted protein K12, is produced in thymus to regulate thymocyte signaling and cytokine release. In lung microvascular endothelial cells CD7 serves as an IgM Fc receptor. Expression of CD7 is an important marker used in leukemia diagnostics.

Overview

Product Name	Anti-Hu CD7 Purified Monoclonal Antibody
Reactive Species	Human
Description	Boster Bio Anti-Hu CD7 Purified Monoclonal Antibody (Catalog# M01974-1). Tested in Flow Cytometry, IP, WB, IHC-P application(s). This antibody reacts with Human.
Application	Flow Cytometry, IP, IHC-P, WB
Clonality	Monoclonal MEM-186
Formulation	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage Instructions	Store at 2-8°C. Do not freeze.
Host	Mouse
Uniprot ID	P09564

Technical Details

Immunogen	Human acute myelogenous leukaemia cell line KG-1. The antibody MEM-186 reacts with an extracellular epitope of CD7, a 40 kD type I transmembrane glycoprotein expressed on peripheral blood T lymphocytes, NK-cells, hematopoietic progenitors, monocytes (weakly) and also on acute lymphocytic leukemia.
Predicted Reactive Species	Primate
Cross Reactivity	This antibody does not cross-react with Thy-1.1 alloantigen.
Isotype	Mouse IgG1
Form	Liquid
Concentration	1 mg/ml
Purification	Purified by protein-A affinity chromatography.

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:

Immunohistochemistry (paraffin sections): 5 ug/ml; positive tissue: spleen.

Flow cytometry: 2 ug/ml.

Western blotting: Non-reducing conditions.

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