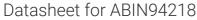
antibodies -online.com





anti-CD7 antibody

3 Images



Publication



Go to Product page

Overview

Quantity:	0.1 mg
Target:	CD7
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD7 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Western Blotting (WB), Immunoprecipitation (IP), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	Human acute myelogenous leukaemia cell line KG-1.
Clone:	MEM-186
Isotype:	lgG1
Specificity:	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.
Cross-Reactivity (Details):	Human
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

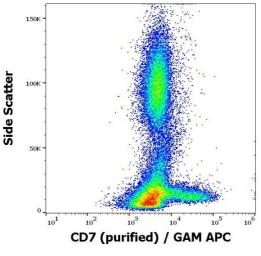
Target Details

Target:	CD7
Alternative Name:	CD7 (CD7 Products)
Background:	CD7 Molecule,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.,GP40, TLA, TP41, LEU-
	9
Gene ID:	924
UniProt:	P09564
Pathways:	Cell-Cell Junction Organization
Application Details	
Application Notes:	Immunohistochemistry (paraffin sections): Recommended dilution: 5 μg/mL, positive tissue:
	spleen.
	Flow cytometry: Recommended dilution: 2 µg/mL.
	Western blotting: Non-reducing conditions.
Restrictions:	For Research Use only
Handling	
Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which
	should be handled by trained staff only.
Handling Advice:	Do not freeze.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

Product cited in:

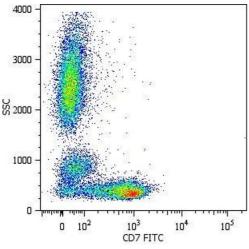
Rappl, Riet, Awerkiew, Schmidt, Hombach, Pfister, Abken: "The CD3-zeta chimeric antigen receptor overcomes TCR Hypo-responsiveness of human terminal late-stage T cells." in: **PLoS ONE**, Vol. 7, Issue 1, pp. e30713, (2012) (PubMed).

Images



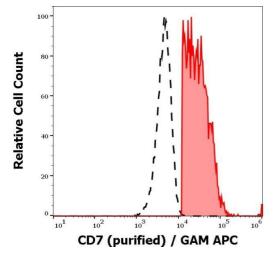
Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD7 (MEM-186) purified antibody (concentration in sample 0,33 μ g/mL, GAM APC).



Flow Cytometry

Image 2. Surface staining of human peripheral blood cells with anti-human CD7 (MEM-186) FITC.



Flow Cytometry

Image 3. Separation of human CD7 positive lymphocytes (red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD7 (MEM-186) purified antibody (concentration in sample 0,33 μ g/mL, GAM APC).