ARG62919
anti-CD7 antibody [MEM-186] (FITC)

Package: 100 tests
Store at: 4°C

Summary

Product Description	FITC-conjugated Mouse Monoclonal antibody [MEM-186] recognizes CD7
Tested Reactivity	Hu
Tested Application	FACS
Specificity	The clone MEM-186 reacts with 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. HLDA VI; WS Code T 6T-015
Host	Mouse
Clonality	Monoclonal
Clone	MEM-186
Isotype	IgG1
Target Name	CD7
Species	Human
Immunogen	Human acute myelogenous leukaemia cell line KG-1.
Conjugation	FITC
Alternate Names	TP41; Tp40; T-cell antigen CD7; CD antigen CD7; T-cell leukemia antigen; LEU-9; T-cell surface antigen Leu-9; GP40

Application Instructions

Application table

Application	Dilution
FACS	20 µl / 10^6 cells

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

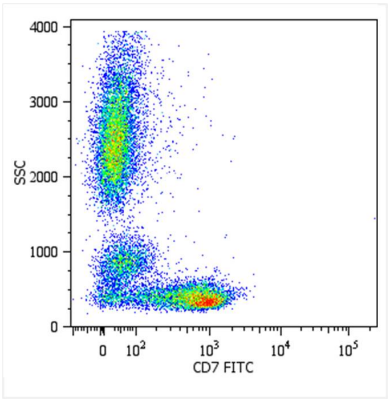
Form	Liquid
Purification Note	The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC and adjusted for direct use. No reconstitution is necessary.
Buffer	PBS, 15 mM Sodium azide and 0.2% (w/v) high-grade protease free BSA
Preservative	15 mM Sodium azide
Stabilizer	0.2% (w/v) high-grade protease free BSA
Storage instruction	Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 924 Human Swiss-port # P09564 Human
Gene Symbol	CD7
Gene Full Name	CD7 molecule
Background	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.
Function	Not yet known. [UniProt]
Research Area	Immune System antibody
Calculated Mw	25 kDa

Images



ARG62919 anti-CD7 antibody [MEM-186] (FITC) FACS image

Flow Cytometry: Human peripheral blood cells stained with ARG62919 anti-CD7 antibody [MEM-186] (FITC).