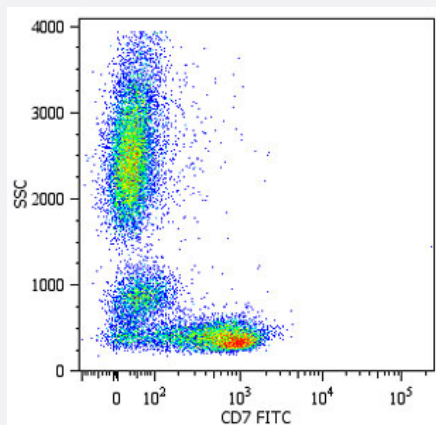


# CD7 monoclonal antibody, clone MEM-186 (FITC)

Catalog # MAB4540      Size 100 Reactions

## Applications



### Flow Cytometry

Surface staining of human peripheral blood cells with CD7 monoclonal antibody, clone MEM-186 (FITC) (Cat # MAB4540).

## Specification

<b>Product Description</b>	Mouse monoclonal antibody raised against native CD7.
<b>Immunogen</b>	Native purified CD7 from human acute myelogenous leukaemia cell line KG-1.
<b>Host</b>	Mouse
<b>Theoretical MW (kDa)</b>	40
<b>Reactivity</b>	Human
<b>Specificity</b>	The antibody reacts with CD7, a 40 kDa type I transmembrane glycoprotein expressed on peripheral blood T lymphocytes, NK-cells, hematopoietic progenitors, monocytes (weakly) and also on acute lymphocytic leukemia.
<b>Form</b>	Liquid
<b>Conjugation</b>	FITC
<b>Isotype</b>	IgG

Recommend Usage	Flow Cytometry (20 ul in human blood cells 100 ul in whole blood or 10 <sup>6</sup> cells in a suspension) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.2% BSA, 0.09% sodium azide)
Storage Instruction	Store in the dark at 4°C. Do not freeze. Avoid prolonged exposure to light. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- Flow Cytometry

Surface staining of human peripheral blood cells with CD7 monoclonal antibody, clone MEM-186 (FITC) (Cat # MAB4540).

## Gene Info — CD7

Entrez GeneID	<a href="#">924</a>
Gene Name	CD7
Gene Alias	GP40, LEU-9, TP41, Tp40
Gene Description	CD7 molecule
Omim ID	<a href="#">186820</a>
Gene Ontology	<a href="#">Hyperlink</a>
Gene Summary	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. [provided by RefSeq]
Other Designations	CD7 antigen CD7 antigen (p41) T-cell antigen CD7 T-cell leukemia antigen p41 protein

## Publication Reference

- [Role of CD7 expressed in lung microvascular endothelial cells as Fc receptor for immunoglobulin M.](#)

Nishimura M, Takanashi M, Okazaki H, Satake M, Nakajima K.

Endothelium 2006 Jul; 13(4):287.

Application: Flow Cyt, Func, Human, LME cells

- [CD7 expression predicts poor disease free survival and post-remission survival in patients with acute myeloid leukemia and normal karyotype.](#)

Chang H, Yeung J, Brandwein J, Yi QL.

Leukemia Research 2006 Jul; 31(2):157.

- [Expression of the CD7 ligand K-12 in human thymic epithelial cells: regulation by IFN-gamma.](#)

Lam GK, Liao HX, Xue Y, Alam SM, Searce RM, Kaufman RE, Sempowski GD, Haynes BF.

Journal of Clinical Immunology 2005 Jan; 25(1):41.

## Pathway

- [Hematopoietic cell lineage](#)