

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

Catalog # MAB4535

Size 100 Reactions

## Specification

Product Description	Mouse monoclonal antibody raised against native CD7.
Immunogen	Native purified CD7 from human acute myelogenous leukaemia cell line KG-1.
Host	Mouse
Theoretical MW (kDa)	40
Reactivity	Human
Specificity	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.
Form	Liquid
Conjugation	APC
Isotype	IgG
Recommend Usage	Flow Cytometry (10 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

## 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](#)