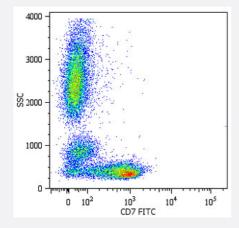


# CD7 monoclonal antibody, clone MEM-186 (FITC)

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	
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 ly mphocytic leukemia.
Form	Liquid
Conjugation	FITC
Isotype	lgG



### **Product Information**

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 shoul d 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 GenelD	<u>924</u>
Gene Name	CD7
Gene Alias	GP40, LEU-9, TP41, Tp40
Gene Description	CD7 molecule
Omim ID	186820
Gene Ontology	Hyperlink
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, Scearce RM, Kaufman RE, Sempowski GD, Haynes BF.

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

### Pathway

Hematopoietic cell lineage