

## Datasheet

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

**Catalog Number:** MAB4540

**Regulatory Status:** For research use only (RUO)

**Product Description:** Mouse monoclonal antibody raised against native CD7.

**Clone Name:** MEM-186

**Immunogen:** Native purified CD7 from human acute myelogenous leukaemia cell line KG-1.

**Host:** Mouse

**Theoretical MW (kDa):** 40

**Reactivity:** Human

**Applications:** Flow Cyt  
(See our web site product page for detailed applications information)

**Protocols:** See our web site at <http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

**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:** FITC

**Isotype:** 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.

**Entrez GeneID:** 924

**Gene Symbol:** CD7

**Gene Alias:** GP40, LEU-9, TP41, Tp40

**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]

#### References:

1. 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. Leuk Res. 2007 Feb;31(2):157-62. Epub 2006 Jul 11.
2. 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-Aug;13(4):287-92.
3. Expression of the CD7 ligand K-12 in human thymic epithelial cells: regulation by IFN-gamma. Lam GK, Liao HX, Xue Y, Alam SM, Scarce RM, Kaufman RE, Sempowski GD, Haynes BF. J Clin Immunol. 2005 Jan;25(1):41-9.