



11-206-C100

Monoclonal Antibody to CD7 Purified Antibody (0.1 mg)

Clone:	MEM-186
Isotype:	Mouse IgG1
Specificity:	The MEM-186 antibody 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
Regulatory Status:	RUO
Immunogen:	Human acute myelogenous leukaemia cell line KG-1.
Species Reactivity:	Human
Application:	Flow Cytometry Recommended dilution: 2 µg/ml Immunoprecipitation Western Blotting Application note: Non-reducing conditions. Immunohistochemistry (paraffin sections) Recommended dilution: 5 µg/ml Positive tissue: spleen
Purity:	> 95% (by SDS-PAGE)
Purification:	Purified by protein-A affinity chromatography
Concentration:	1 mg/ml
Storage Buffer:	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
Storage / Stability:	Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.
Expiration:	See vial label
Lot Number:	See vial label
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.

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Antibodies

- References:**
- *Alaibac M, Pigozzi B, Belloni-Fortina A, Michelotto A, Saponeri A, Peserico A. CD7 expression in reactive and malignant human skin T-lymphocytes. *Anticancer Res.* 2003 May-Jun;23(3B):2707-10.
 - *Lam GK, Liao HX, Xue Y, Alam SM, Searce RM, Kaufman RE, Sempowski GD, Haynes BF. Expression of the CD7 ligand K-12 in human thymic epithelial cells: regulation by IFN-gamma. *J Clin Immunol.* 2005 Jan;25(1):41-9.
 - *Nishimura M, Takanashi M, Okazaki H, Satake M, Nakajima K: Role of CD7 expressed in lung microvascular endothelial cells as Fc receptor for immunoglobulin M. *Endothelium.* 2006 Jul-Aug;13(4):287-92.
 - *Chang H, Yeung J, Brandwein J, Yi QL: CD7 expression predicts poor disease free survival and post-remission survival in patients with acute myeloid leukemia and normal karyotype. *Leuk Res.* 2007 Feb;31(2):157-62. Epub 2006 Jul 11.
 - *Leukocyte Typing VI., Kishimoto T. et al. (Eds.), Garland Publishing Inc. (1997).

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