



11-183-C025

Monoclonal Antibody to CD7 Purified Antibody (0.025 mg)

Clone:	124-1D1
Isotype:	Mouse IgG1
Specificity:	The mouse monoclonal antibody 124-1D1 recognizes 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 IV; WS Code T155
Regulatory Status:	RUO
Immunogen:	not available
Species Reactivity:	Human
Application:	Flow Cytometry
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:**

- *van Dongen JJ, Lhermitte L, Böttcher S, Almeida J, van der Velden VH, Flores-Montero J, Rawstron A, Asnafi V, Lécresse Q, Lucio P, Mejstrikova E, Szczepański T, Kalina T, de Tute R, Brüggemann M, Sedek L, Cullen M, Langerak AW, Mendonça A, Macintyre E, Martin-Ayuso M, Hrusak O, Vidrales MB, Orfao A; EuroFlow Consortium (EU-FP6, LSHB-CT-2006-018708): EuroFlow antibody panels for standardized n-dimensional flow cytometric immunophenotyping of normal, reactive and malignant leukocytes. *Leukemia*. 2012 Sep;26(9):1908-75. doi: 10.1038/leu.2012.120.
- *Pelegrí C, Castell M, Serra M, Rabanal M, Rodríguez-Palmero M, Castellote C, Franch A: Prevention of adjuvant arthritis by the W3/25 anti-CD4 monoclonal antibody is associated with a decrease of blood CD4(+)CD45RC(high) T cells. *Clin Exp Immunol*. 2001 Sep;125(3):470-7.
- *Vicario M, Amat C, Rivero M, Moretó M, Pelegrí C: Dietary glutamine affects mucosal functions in rats with mild DSS-induced colitis. *J Nutr*. 2007 Aug;137(8):1931-7.
- *Preston SG, Majtán J, Kouremenou C, Rysnik O, Burger LF, Cabezas Cruz A, Chiong Guzman M, Nunn MA, Paesen GC, Nuttall PA, Austyn JM: Novel immunomodulators from hard ticks selectively reprogramme human dendritic cell responses. *PLoS Pathog*. 2013;9(6):e1003450.

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