

AM26778LE-N**Monoclonal Antibody to CD2 - PE**

Quantity:	0.1 mg
Concentration:	1.0 mg/ml
Background:	CD2 (also known as LFA-2) belongs to T lymphocyte glycoproteins of immunoglobulin superfamily. Its interaction with CD58 stabilizes adhesion between T cells and antigen presenting or target cells. Relatively low affinity of CD2 to CD58 (as measured in solution) is compensated within the two-dimensional cell-cell interface to provide tight adhesion. Moreover, T cell activation induces increased CD2 expression and its lateral mobility, making easier contact between CD2 and CD58. Subsequently, T cell activation causes fixation of CD58-CD2 at sites of cell-cell contact, thereby strengthening intercellular adhesion. CD2 deficiency reduces intestinal inflammation and helps to control infection.
Host / Isotype:	Mouse / IgG1
Recommended Isotype Controls:	SM10R (for use in human samples)
Clone:	TS1/8
Immunogen:	Cytotoxic T lymphocytes
Format:	State: Liquid Ig fraction Purification: Protein-A affinity chromatography Buffer System: Azide free phosphate buffered saline (PBS), approx. pH 7.4; 0.2 µm filter sterilized Endotoxin Level: Less than 0.01 EU/µg of the protein, as determined by the LAL test Label: PE
Applications:	Flow cytometry. Functional application: Blocking. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognizes CD2, a 50 kDa glycoprotein present on the human peripheral blood T lymphocytes and NK cells; also expressed by all thymocytes.
Species Reactivity:	Tested: Human
Storage:	Store undiluted at 2-8°C. DO NOT FREEZE! Shelf life: one year from despatch.
General Readings:	1. Leukocyte Typing V., Schlossman S. et al. (Eds.), Oxford University Press (1995). 2. Vollger LW, Tuck DT, Springer TA, Haynes BF, Singer KH. Thymocyte binding to human thymic epithelial cells is inhibited by monoclonal antibodies to CD-2 and LFA-3 antigens. J Immunol. 1987 Jan 15;138(2):358-63. PubMed PMID: 3098838. 3. Sanchez-Madrid F, Krensky AM, Ware CF, Robbins E, Strominger JL, Burakoff SJ, et al. Three distinct antigens associated with human T-lymphocyte-mediated cytotoxicity: LFA-1, LFA-2, and LFA-3. Proc Natl Acad Sci U S A. 1982 Dec;79(23):7489-93. PubMed

PMID: 6984191.

4. Zhang B, Dai M, Li QJ, Zhuang Y. Tracking proliferative history in lymphocyte development with cre-mediated sister chromatid recombination. PLoS Genet. 2013 Oct;9(10):e1003887. doi: 10.1371/journal.pgen.1003887. Epub 2013 Oct 31. PubMed PMID: 24204301.