



1P-728-T100

Monoclonal Antibody to CD300e Phycoerythrin (PE) conjugated (100 tests)

Clone:	UP-H2
Isotype:	Mouse IgG1
Specificity:	The mouse monoclonal antibody UP-H2 recognizes CD300e / IREM-2, a 32 kDa glycoprotein expressed by mature monocytes and peripheral blood myeloid dendritic cells.
Regulatory Status:	RUO
Immunogen:	CD300e-HA-transfected cells
Species Reactivity:	Human
Preparation:	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
Storage Buffer:	The reagent is provided in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide.
Storage / Stability:	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.
Usage:	The reagent is designed for Flow Cytometry analysis of human blood cells using 10 µl reagent / 100 µl of whole blood or 10 ⁶ cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.
Expiration:	See vial label
Lot Number:	See vial label
Background:	CD300e / IREM-2 (immune receptor expressed by myeloid cells 2), also known as CLM2 or LMIR6, is a monomeric transmembrane glycoprotein with a single extracellular immunoglobulin-like domain. Intracellularly it associates with DAP-12, an ITAM-containing adaptor molecule. CD300e is expressed on mature monocytes and peripheral blood myeloid dendritic cells. Its crosslinking leads to release of pro-inflammatory cytokines, and increased expression of activation markers.
References:	*Clark GJ, Ju X, Tate C, Hart DN: The CD300 family of molecules are evolutionarily significant regulators of leukocyte functions. Trends Immunol. 2009 May;30(5):209-17. *Aguilar H, Alvarez-Errico D, García-Montero AC, Orfao A, Sayós J, López-Botet M: Molecular characterization of a novel immune receptor restricted to the monocytic lineage. J Immunol. 2004 Dec 1;173(11):6703-11. *Brckalo T, Calzetti F, Pérez-Cabezas B, Borrás FE, Cassatella MA, López-Botet M: Functional analysis of the CD300e receptor in human monocytes and myeloid dendritic cells. Eur J Immunol. 2010 Mar;40(3):722-32.

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