

TECHNICAL DATA SHEET

CyFlow™ CD300e APC Anti-Hu; Clone UP-H2

REF AK994983

For Research Use Only.
Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	CD300e
Alternative Names	CMRF35L1, CLM2, IREM2
Clone	UP-H2
Clonality	monoclonal
Format	APC
Host / Isotype	Mouse / IgG1
Species Reactivity	Human
Negative Species Reactivity	—
Quantity	100 tests
Immunogen	CD300e-HA-transfected cells

Specificity

The mouse monoclonal antibody UP-H2 recognizes CD300e antigen, a 32 kDa glycoprotein expressed by mature monocytes and peripheral blood myeloid dendritic cells.

Contact Information:

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Application

The reagent is designed for Flow Cytometry analysis of human blood cells. Recommended usage is 10 µl reagent / 100 µl of whole blood or 10⁶ cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.

Other usages may be determined from the scientific literature.

Storage Buffer

The reagent is provided in stabilizing phosphate buffered saline (PBS) solution, pH ≈7.4, containing 0.1% (w/v) sodium azide.

Storage and Stability

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
Stability	Do not use after expiration date stamped on vial label.

Background Information

CD300e (IREM-2; immune receptor expressed by myeloid cells 2, 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

- 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. < PMID: 15557162 >
- 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. < PMID: 19359216 >
- 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. < PMID: 20039296 >

The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

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