

TECHNICAL DATA SHEET

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

REF BT723227

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	Purified
Host / Isotype	Mouse / IgG1
Species Reactivity	Human
Negative Species Reactivity	—
Quantity [Concentration]	0.1 mg [1 mg/ml]
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.

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Application

Based on published sources, this antibody is suitable for the following applications:

- Flow cytometry
- Immunoprecipitation
- Western blot
- Functional assays

Storage Buffer

The reagent is provided in phosphate buffered saline (PBS) solution, pH $\approx$ 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 >

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

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