TECHNICAL DATA SHEET

CyFlow™ CD361 PE

Anti-Hu; Clone MEM-216

REF **CA310409**

For Research Use Only.

Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	CD361
Alternative Names	EVDB, D17S376, EVI2B
Clone	MEM-216
Clonality	monoclonal
Format	PE
Host / Isotype	Mouse / IgG1
Species Reactivity	Human
Negative Species Reactivity	—
Quantity	100 tests
Immunogen	Raji cells: human Burkitt's lymphoma cell line

Specificity

The mouse monoclonal antibody MEM-216 recognizes CD361 antigen, almost uncharacterized type I transmembrane protein with broad leukocyte expression, mostly in myeloid and B cells.

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Application

The reagent is designed for Flow Cytometry analysis of human blood cells. Recommended usage is 20 µl reagent / 100 µl of whole blood or 10^6 cells in a suspension. The content of a vial (2 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

CD361 (EVI2B; Ecotropic Viral Integration site 2B or EVDB), is a poorly characterized type I transmembrane protein, expressed from one of three genes embedded in intron 27b of the neurofibromatosis type 1 (NF1) gene. The DNA strand that is transcribed to produce CD361 is the complementary one to the strand encoding NF1. Murine homolog to human CD361 is associated with ecotropic viral insertions, which have been implicated in the expression of murine myeloid leukemias. CD361 has been also reported to be involved in melanocyte and keratinocyte differentiation. However, it is expressed mainly in peripheral blood and bone marrow.

References

- Viskochil D, Cawthon R, O'Connell P, Xu GF, Stevens J, Culver M, Carey J, White R: The gene encoding the oligodendrocyte-myelin glycoprotein is embedded within the neurofibromatosis type 1 gene. Mol Cell Biol. 1991 Feb; 11(2):906-12. < PMID: 1899288 >
- Kaufmann D, Gruener S, Braun F, Stark M, Griesser J, Hoffmeyer S, Bartelt B: EVI2B, a gene lying in an intron of the neurofibromatosis type 1 (NF1 gene, is as the NF1 gene involved in differentiation of melanocytes and keratinocytes and is overexpressed in cells derived from NF1 neurofibromas. DNA Cell Biol. 1999 May; 18(5):345-56. < PMID: 10360836 >

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

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