

TECHNICAL DATA SHEET

CyFlow™ CD81 FITC Anti-Hu; Clone M38

REF CU428000

For Research Use Only.

Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	CD81
Alternative Names	TAPA-1
Clone	M38
Clonality	monoclonal
Format	FITC
Host / Isotype	Mouse / IgG1
Species Reactivity	Human, Cat Rabbit
Negative Species Reactivity	—
Quantity	100 tests
Immunogen	MOLT-4 (human T-ALL cell line)

Specificity

The mouse monoclonal antibody M38 recognizes CD81 antigen, a 25 kDa member of the tetraspanin family, expressed on majority of 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 10⁶ 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

CD81 (TAPA-1), a member of the tetraspanin family, is expressed on virtually all nucleated cells, but above all on germinal center B cells. CD81 forms complexes with other tetraspanin proteins, integrins, coreceptors, MHC class I and II molecules, and influences adhesion, morphology, activation, proliferation and differentiation of B, T and other cells, e.g. in muscles CD81 promotes cell fusion and myotube maintenance. CD81 has been also identified as a receptor for the hepatitis C virus.

References

- Fukudome K, Furuse M, Imai T, Nishimura M, Takagi S, Hinuma Y, Yoshie O: Identification of membrane antigen C33 recognized by monoclonal antibodies inhibitory to human T-cell leukemia virus type 1 (HTLV-1)-induced syncytium formation: altered glycosylation of C33 antigen in HTLV-1-positive T cells. J Virol. 1992 Mar; 66(3):1394-401. < PMID: 1738199 >
- Imai T, Yoshie O: C33 antigen and M38 antigen recognized by monoclonal antibodies inhibitory to syncytium formation by human T cell leukemia virus type 1 are both members of the transmembrane 4 superfamily and associate with each other and with CD4 or CD8 in T cells. J Immunol. 1993 Dec 1; 151(11):6470-81. < PMID: 8245480 >
- Imai T, Kakizaki M, Nishimura M, Yoshie O: Molecular analyses of the association of CD4 with two members of the transmembrane 4 superfamily, CD81 and CD82. J Immunol. 1995 Aug 1; 155(3):1229-39. < PMID: 7636191 >

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- Escola JM, Kleijmeer MJ, Stoorvogel W, Griffith JM, Yoshie O, Geuze HJ: Selective enrichment of tetraspan proteins on the internal vesicles of multivesicular endosomes and on exosomes secreted by human B-lymphocytes. J Biol Chem. 1998 Aug 7; 273(32):20121-7. < PMID: 9685355 >
- Stehlíková O, Chovancová J, Tichý B, Krejčí M, Brychtová Y, Panovská A, Francová Skuhrová H, Burčková K, Borský M, Loja T, Mayer J, Pospíšilová S, Doubek M: Detecting minimal residual disease in patients with chronic lymphocytic leukemia using 8-color flow cytometry protocol in routine hematological practice. Int J Lab Hematol. 2014 Apr; 36(2):165-71. < PMID: 24028768 >

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

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