

TECHNICAL DATA SHEET

CyFlow™ CD81 APC-Cy7 Anti-Hu; Clone M38

REF AN580880

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

Specifications

Antigen	CD81
Alternative Names	TAPA-1
Clone	M38
Clonality	monoclonal
Format	APC-Cy7
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.

Contact Information:

Sysmex Partec GmbH • Am Flugplatz 13 • 02828 Görlitz • Germany
Tel +49 3581 8746 0 • Fax +49 3581 8746 70 • E-mail: info@sysmex-partec.com

Application

The reagent is designed for Flow Cytometry analysis of human blood cells. Recommended usage is 4 µl reagent / 100 µl of whole blood or 10⁶ cells in a suspension. The content of a vial (0.4 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

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

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