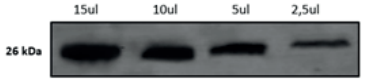
Anti-Human CD81 (M38)

	REF	Σ	
Pure	81PU-01MG	100 µg	RUO
FITC	81F-100T	100 test	
PE	81PE-100T	100 test	
APC	81A-100T	100 test	

1. PRODUCT DESCRIPTION

- **Clone:** M38;
- **Isotype**: IgG1;
- **Tested application**: flow cytometry, western blot;
- **Immunogen**: The anti-CD81 monoclonal antibody derives from MOLT-4 (human T-ALL cell line);
- **Species reactivity**: Human, Feline (cat), Rabbit;
- **Storage instruction:** store in the dark at 2-8 °C;
- **Storage buffer:** aqueous buffered solution containing protein stabilizer and 0.09% sodium azide (NaN_3);
- **Recommended usage**: Immunostep's CD81, clone M38, is a monoclonal antibody intended for:
  - Flow cytometry Immunophenotyping: identification and enumeration of TAPA-1. This reagent is effective for direct immunofluorescence staining of human tissue for flow cytometric analysis using 1 test for 10^6 cells.
  - Exosomes detection: the products conjugated in PE, FITC, and biotin can be used in combination with #ExoStep Kit and #capture beads. For this application it could be necessary to assay with different quantities.
  - Western blot: specific exosomes markers are identified with this technique. 1:5000 is the recommended dilution for pure antibodies and 1:500 for biotin antibodies[4-5];



- **Presentation**: liquid;
- **Source**: Supernatant proceeding from an in vitro cell culture of a cell hybridoma;
- **Purification**: Affinity chromatography;
- **Other names**: TAPA-1, target of an antiproliferative antibody;
- **Gene ID:** 975;
- **Molecular weight:** 26 kDa.

2. ANTIGEN DETAILS

Large description: This antibody reacts with the CD81-antigen, which is a widely expressed cell-surface protein involved in an astonishing variety of biologic responses. It has been cloned independently several times for different functional effects and is reported to influence adhesion, morphology, activation, proliferation, and differentiation of B, T, and other cells.

On B cells CD81 is part of a complex with CD21, CD19, and Leu13. This complex reduces the threshold for B cell activation via the B cell receptor by bridging Ag specific recognition and CD21-mediated complement recognition. Similarly on T cells CD81 associates with CD4 and CD8 and provides a costimulatory signal with CD3.

CD81 is also physically and functionally associated with several integrins. Anti-CD81 can activate integrin alpha 4 beta 1 (VLA-4) on B cells, facilitating their adhesion to tonsilar interfollicular stroma[1-3].

3. WARRANTY

Warranted only to conform to the quantity and contents stated on the label or in the product labelling at the time of delivery to the customer. Immunostep disclaims hereby other warranties.

Immunostep's sole liability is limited to either the replacement of the products or refund of the purchase price.

4. ADDITIONAL INFORMATION

For research use only. Not for diagnostic use.

Not for resale. Immunostep will not be responsible of violations that may occur with the use of this product. Any use of this product other than the specified in this document is strictly prohibited.

Unless otherwise indicated by Immunostep by written authorization, this product is intended for research only and is not to be used for any other purpose, including without limitation, for human or animal diagnostic, therapeutic or commercial purposes.

Please, refer to www.immunostep.com technical support for more information.

5. REFERENCES

1. Sakaguchi N, Kashiwamura S, Kimoto M, Thalmann P, Melchers F. B lymphocyte lineage-restricted expression of mb-1, a gene with CD3-like structural properties. EMBO J1988 Nov;7(11):3457-64.
2. Mason DY, Cordell JL, Tse AG, van Dongen JJ, van Noesel CJ, Micklem K, et al. The IgM-associated protein mb-1 as a marker of normal and neoplastic B cells. J Immunol1991 Dec 01;147(11):2474-82.
3. Schlossman SF. Leucocyte typing V : white cell differentiation antigens : proceedings of the Fifth International Workshop and Conference : held in Boston, USA, 3-7 November, 1993. Oxford: Oxford University Press; 1995.

6. EXPLANATION OF SYMBOLS

	Fluorochrome
REF	Product reference
Σ	Content for <n> analysis
	Regulatory Status
RUO	Research Use Only
	Manufacturer

7. MANUFACTURED BY:

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