Anti-Human CD9 (VJ1/20)

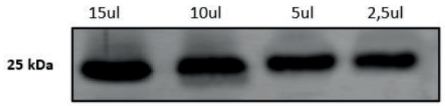
	REF	Σ		[A]	
PURE	9PU	1 mg	10 µg/test	1 mg/ml	
PURE	9PU-01MG	100 µg	10 µg/test	1 mg/ml	
PE	9PE-100T	100 test	20 µL/test	0,05 mg/ml	RUO
APC-C750	9AC750-100T	100 test	5 µL/test	0,2 mg/ml	
Biotin	9B-01MG	100 µg	5 µL/test	0,2 mg/ml	
CF-Blue	9CFB-100T	100 test	5 µL/test	0,2 mg/ml	

1. PRODUCT DESCRIPTION

Clone: VJ1/20;
Isotype: IgG2a;
Tested application: flow cytometry, western blot;
Immunogen: The anti-CD9 monoclonal antibody derives from tissue / cell preparation (Human tonsil);
Species reactivity: Human;
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 CD9, clone VJ1/20, is a monoclonal antibody intended for:

- Flow cytometry immunophenotyping: identification and enumeration of human platelets. 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, biotin and CF-Blue 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 [8-9];



Presentation: liquid;
Source: Supernatant proceeding from an in vitro cell culture of a cell hybridoma;
- **Purification**: Affinity chromatography;
- **Other names**: DRAP-27, MRP-1, p24, CD9 antigen, 5H9 antigen, Cell growth-inhibiting gene 2 protein, Leukocyte antigen MIC3, Motility-related protein, MRP-1, Tetraspanin-29, Tspan-31;

Gene ID: 928;
Molecular weight: 25 kDa.

2. ANTIGEN DETAILS

Large description: CD9 antigen is expressed on the surface of developing B lymphocytes, platelets, monocytes, eosinophils, basophils, stimulated T lymphocytes and by neurons and glial cells in the peripheral nervous system. In pre-B cells and platelets, CD9 antigen regulates cell activation and aggregation possibly through an association with the integrin CD41/CD61 (GPIIb/GPIIIa).[1-7]

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. Boucheix C, Benoit P, Frachet P, Billard M, Worthington RE, Gagnon J, et al. Molecular cloning of the CD9 antigen. A new family of cell surface proteins. J Biol Chem1991 Jan 5;266(1):117-22.
2. Lanza F, Wolf D, Fox CF, Kieffer N, Seyer JM, Fried VA, et al. cDNA cloning and expression of platelet p24/CD9. Evidence for a new family of multiple membrane-spanning proteins. J Biol Chem1991 Jun 5;266(16):10638-45.
3. Li N, Goodall AH, Hjemdahl P. Efficient flow cytometric assay for platelet-leukocyte aggregates in whole blood using fluorescence signal triggering. Cytometry1999 Feb 1;35(2):154-61.
4. Wright MD, Tomlinson MG. The ins and outs of the transmembrane 4 superfamily. Immunol Today1994 Dec;15(12):588-94.
5. Zeleznik-Le NJ, Metzgar RS. Expression of CD9 antigen on normal activated human B cells. Cell Immunol1989 Oct 1;123(1):70-82.
6. Zola H, Furness V, Barclay S, Zowtyj H, Smith M, Melo JV, et al. The p24 leucocyte membrane antigen: modulation associated with lymphocyte activation and differentiation. Immunol Cell Biol1989 Feb;67 (Pt 1):63-70.
7. Toribio V, Morales S, Lopez-Martin S, Cardenes B, Cabanas C, Yanez-Mo M. Development of a quantitative method to measure EV uptake. Sci Rep Jul 19;9(1):10522.
8. Yáñez-Mó M, Siljander P, Andreu Z, Bedina Zavec A, Borràs F, Buzas E et al. Biological properties of extracellular vesicles and their physiological functions. Journal of Extracellular Vesicles. 2015;4 (1):27066.
9. Théry C, Amigorena S, Raposo G, Clayton A. Isolation and Characterization of Exosomes from Cell Culture Supernatants and Biological Fluids. Current Protocols in Cell Biology. 2006.

6. EXPLANATION OF SYMBOLS

	Form
REF	Catalog reference
Σ	Contains sufficient for <n> test
	Regulatory Status
	Quantity per test
RUO	Research Use Only
[A]	Concentration
	Manufacturer

7. MANUFACTURED BY:

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