

# Anti-Human CD26 (TPI/19)



PURE	26PU	1 mg	1 mg/ml
FITC	26F-100T	100 test	20 µL/test 2 mg/ml
PE	26PE-100T	100 test	20 µL/test 2 mg/ml
APC	26A-100T	100 test	20 µL/test 2 mg/ml
CF-Blue	26CFB-100T	100 test	5 µL/test 0,05 mg/ml

**RUO**

## 1. PRODUCT DESCRIPTION

**Clone:** TPI/19;  
**Isotype:** IgG2b;  
**Tested application:** flow cytometry;  
**Immunogen:** The anti-CD26 monoclonal antibody derives from PMA and Ionomyacin activated T cells blast (Human);  
**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<sub>3</sub>);  
**Recommended usage:** Immunostep's CD26, clone TPI/19 is a monoclonal antibody intended for the identification and enumeration of mature thymocytes, T lymphocytes (upregulated upon activation), B cells, NK cells, and macrophages using flow cytometry. This reagent is effective for direct immunofluorescence staining of human tissue for flow cytometric analysis using 1 test for 10<sup>6</sup> cells;  
**Presentation:** liquid;  
**Source:** Supernatant proceeding from an in vitro cell culture of a cell hybridoma;  
**Purification:** Affinity chromatography;  
**Other names:** Dipeptidyl peptidase 4, ADABP, Adenosine deaminase complexing protein 2, ADCP-2, Dipeptidyl peptidase IV, DPP IV, T-cell activation antigen CD26, TPIO3, ADA-binding protein;  
**Gene ID:** 1803;  
**Molecular weight:** 110 kDa.

## 2. ANTIGEN DETAILS

**Large description:** This antibody reacts with the T cell activation antigen that has cell surface dipeptidyl peptidase IV (DPPIV) enzyme activity. The CD26 antigen is a functional collagen receptor as well as a DPPIV ectoenzyme which cleaves amino-terminal dipeptides with either L-proline or L-alanine at the penultimate position.<sup>(1-4)</sup>

## 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.

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## 5. PROTOCOL

### ■ Direct Immunofluorescence Cell Surface Staining Protocol

1. Transfer 100 ul (106 cells/test) of the sample to a 12 x 75 mm polystyrene test tube.
2. Add the suggested volume indicated on the antibody vial to the 12x75 mm cytometer tube.
3. Mix well and incubate in the dark at room temperature at 4 °C for 30 minutes or at room temperature (20-25 °C) for 15 minutes.
4. After the incubation period, add 1,5 ml of an erythrocyte-lysing solution and mix. Incubate at room temperature in the darkness (the blood should be well mixed with the lysing solution).
5. Centrifuge tubes at 540xg for 5 minutes. The supernatant is removed with a Pasteur pipette or with a vacuum pump.
6. Resuspend and wash with 3-5 mL of PBS at 540xg for 5 min.
7. After removing the supernatant and resuspending the cell pellet, add 300 µL of PBS and acquire on the flow cytometer are recorded.
8. Analyse on a flow cytometer or store at 2- 8 °C in the dark until analysis. Samples can be run up to 24 hours after lysis.








### ■ Indirect Immunofluorescence Cell Surface Staining Protocol

1. Transfer 100 ul (106 cells/test) of the sample to a 12 x 75 mm polystyrene test tube
2. Add purified reagent according to manufacturer's recommendation and mix gently with a vortex mixer.
3. Incubate in the dark at room temperature at 4 °C for 30 minutes or at room temperature (20-25 °C) for 15 minutes.
4. Add 2 mL 0.01 mol/L PBS (It betters that it containing 2% bovine serum albumin) and resuspend the cells by using a vortex mixer. Centrifuge at 540xg for 5 min in order to remove the McAb not bound to its antigen.
5. Add a secondary conjugated reagent with some fluorochrome and mix. Incubate at room temperature for 15 min in the dark. The absence of light is necessary as the fluorochrome is photoinstability.
6. After the incubation period, add 1,5 ml of an erythrocyte-lysing solution and mix. Incubate at room temperature in the darkness (the blood should be well mixed with the lysing solution). Centrifuge at 540xg for 5 minutes. The supernatant is removed with a Pasteur pipette or with a vacuum pump.
7. Resuspend and a made a final wash with 3-5 mL of PBS at 540xg for 5 min.
8. After removing the supernatant and resuspending the cell pellet, add 300 µL of PBS and acquire on the flow cytometer are recorded.
9. Analyse on a flow cytometer or store at 2- 8 °C in the dark until analysis. Samples can be run up to 24 hours after lysis.

## 6. REFERENCES

1. Dang NH, Torimoto Y, Schlossman SF, Morimoto C. Human CD4 helper T cell activation: functional involvement of two distinct collagen receptors, IF7 and VLA integrin family. *J Exp Med*1990 Aug 1;172(2):649-52.
2. Kameoka J, Tanaka T, Nojima Y, Schlossman SF, Morimoto C. Direct association of adenosine deaminase with a T cell activation antigen, CD26. *Science*1993 Jul 23;261(5120):466-9.
3. Scholz W, Mentlein R, Heymann E, Feller AC, Ulmer AJ, Flad HD. Interleukin 2 production by human T lymphocytes identified by antibodies to dipeptidyl peptidase IV. *Cell Immunol*1985 Jun;93(1):199-211.
4. Knapp W. Leucocyte typing IV : white cell differentiation antigens. Oxford: Oxford University Press; 1989.

## 7. EXPLANATION OF SYMBOLS

	Form
	Catalog reference
	Contains sufficient for <n> test
	Quantity per test
	Regulatory Status
	Research Use Only
	Manufacturer

## 8. MANUFACTURED BY:



### IMMUNOSTEP S.L.

**Address:** Avda. Universidad de Coimbra, s/n  
 Cancer Research Center (C.I.C)  
 Campus de Unamuno  
 37007 Salamanca (Spain)  
**Tel./fax:** (+34) 923 294 827  
**E-mail:** [info@immunostep.com](mailto:info@immunostep.com)  
[www.immunostep.com](http://www.immunostep.com)