

# Anti-Human CD71 (FG2/12)



PURE	71PU	1 mg	1 mg/ml
FITC	71F-100T	100 test	20 µL/test
PE	71PE-100T	100 test	20 µL/test
APC	71A-100T	100 test	5 µL/test
APC-C750	71AC750-100T	100 test	5 µL/test



## 1. PRODUCT DESCRIPTION

**Clone:** FG2/12;  
**Isotype:** IgG1;  
**Tested application:** flow cytometry;  
**Immunogen:** The anti-CD71 monoclonal antibody derives from human TFRC;  
**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 CD71, clone FG2/12, is a monoclonal antibody intended for the identification and enumeration of human Transferrin receptor protein 1 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:** T9, Transferrin receptor, Transferrin receptor protein 4;  
**Gene ID:** 7037;  
**Molecular weight:** 91 kDa.

## 2. ANTIGEN DETAILS

**Large description:** This antibody reacts with the CD71-antigen, which is expressed on is expressed on proliferating cells, reticulocytes, and erythroid precursors, expression is very low on resting leukocytes, it is a 95 kD type II heterodimeric transmembrane glycoprotein also known as T9 and transferrin receptor. CD71 plays a role in the control of cellular proliferation by facilitating the uptake of iron via ferrotransferrin binding and the recycling of apotransferrin to the cell surface.<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.

Please, refer to [www.immunostep.com](http://www.immunostep.com) technical support for more information.

## 5. REFERENCES

1. Dustin ML, Selvaraj P, Mattaliano RJ, Springer TA. Anchoring mechanisms for LFA-3 cell adhesion glycoprotein at membrane surface. Nature1987 Oct 29-Nov 4;329(6142):846-8.
2. Springer TA, Dustin ML, Kishimoto TK, Marlin SD. The lymphocyte function-associated LFA-1, CD2, and LFA-3 molecules: cell adhesion receptors of the immune system. Annu Rev Immunol1987;5:223-52.
3. Dertinger SD, Torous DK, Hall NE, Murante FG, Gleason SE, Miller RK, et al. Enumeration of micronucleated CD71-positive human reticulocytes with a single-laser flow cytometer. Mutat Res2002 Mar 25;515(1-2):3-14.
4. Malcovati L, Della Porta MG, Lunghi M, Pasutto C, Vanelli L, Travaglini E, et al. Flow cytometry evaluation of erythroid and myeloid dysplasia in patients with myelodysplastic syndrome. Leukemia2005 May;19(5):776-83.

## 6. EXPLANATION OF SYMBOLS



Form



Catalog reference



Contains sufficient for <n> test



Quantity per test



Regulatory Status



Research Use Only



Manufacturer

## 7. MANUFACTURED BY: IMMUNOSTEP S.L.



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