

# Anti-Human CD98 (FGI/8)



PURE	98PU	1 mg	1 mg/ml
PURE	98PU-OIMG	100 µg	1 µg/test
FITC	98F-100T	100 test	20 µL/test
PE	98PE-100T	100 test	20 µL/test
PerCP	98PP-100T	100 test	5 µL/test
APC	98A-100T	100 test	5 µL/test
Biotin	98B-OIMG	100 µg	1 µg/test
CF-Blue	98CFB-100T	100 test	5 µL/test



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. Quackenbush E, Clabby M, Gottesdiener KM, Barbosa J, Jones NH, Strominger JL, et al. Molecular cloning of complementary DNAs encoding the heavy chain of the human 4F2 cell-surface antigen: a type II membrane glycoprotein involved in normal and neoplastic cell growth. *Proc Natl Acad Sci U S A* 1987 Sep;84(18):6526-30.
2. Portales-Perez D, Alarcon-Segovia D, Llorente L, Ruiz-Arguelles A, Abud-Mendoza C, Baranda L, et al. Penetrating anti-DNA monoclonal antibodies induce activation of human peripheral blood mononuclear cells. *J Autoimmun* 1998 Oct;11(5):563-71.
3. Liu X, Charrier L, Gewirtz A, Sitaraman S, Merlin D. CD98 and intracellular adhesion molecule 1 regulate the activity of amino acid transporter LAT-2 in polarized intestinal epithelia. *J Biol Chem* 2003 Jun 27;278(26):23672-7.

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## EXPLANATION OF SYMBOLS



Form



Catalog reference



Contains sufficient for <n> test



Quantity per test



Regulatory Status



Research Use Only



Manufacturer

## 1. PRODUCT DESCRIPTION

**Clone:** FGI/8;

**Isotype:** IgG1;

**Tested application:** flow cytometry;

**Immunogen:** The anti-CD98 monoclonal antibody derives from T cells from leukemic HPB-ALL;

**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 CD98, clone FGI/8, is a monoclonal antibody intended for the identification and enumeration of human leukocyte lineages 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:** 4F2, FRP-1, RL-388, 4F2hc, 4F2 heavy chain antigen, Lymphocyte activation antigen 4F2 large subunit, Solute carrier family 3 member 2;

**Gene ID:** 6520;

**Molecular weight:** 125 kDa.

## 2. ANTIGEN DETAILS

**Large description:** This antibody reacts with the CD98 antigen, which is broadly expressed on peripheral blood lymphocytes, monocytes and granulocytes (low) .It is also expressed on non-hematopoietic cells. Reports suggest that CD98 may be involved in the regulation of cellular activation. CD98 is up-regulated on leukocytes and in inflammatory lesions, and strongly expressed by neoplastic cells. However, expression is not hematopoietic specific. CD98 is expressed in HUVECS and at low levels in resting peripheral blood T-lymphocytes and quiescent fibroblasts. Also it is expressed in fetal liver and in the astrocytic process of primary astrocytic gliomas, in retinal endothelial cells and in the intestinal epithelial cell line C2BBel.<sup>(1-3)</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.

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## 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)