

# Anti-Human CD28 (CD28.2)



FITC



28F-100T



100 test



RUO

## 1. PRODUCT DESCRIPTION

- **Clone:** CD28.2;
- **Isotype:** IgG1;
- **Tested application:** flow cytometry;
- **Immunogen:** The anti-CD28 monoclonal antibody derives from human CD28 Transfected Cell Line;
- **Species reactivity:** Human, Cross-Reactivity: Chimpanzee, Baboon, Cynomolgus, Rhesus, Pigtailed Macaque, Squirrel Monkey, Capuchin Monkey, Sooty Mangabey;
- **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 CD28, clone CD28.2, is a monoclonal antibody intended for the identification and enumeration of human T cells subsets 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:** T-cell-specific surface glycoprotein CD28, TP44;
- **Gene ID:** 940;
- **Molecular weight:** 44 kDa.

## 2. ANTIGEN DETAILS

**Large description:** CD28 is expressed on approximately 29 % of CD4+. CD28 mediates cell adhesion through the two ligands, CD80, expressed on activated B cells. Cross-blocking of CD28 induces T cell activation, suggesting an important role for CD28 in the interaction between B and T cells. This antibody recognizes an homodimeric transmembrane glycoprotein present on most mature T cells, thymocytes and plasma cells.<sup>(1-5)</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. Aruffo A, Seed B. Molecular cloning of a CD28 cDNA by a high-efficiency COS cell expression system. Proc Natl Acad Sci U S A 1987 Dec;84(23):8573-7.
2. Freeman GJ, Gribben JG, Boussiotis VA, Ng JW, Restivo VA, Jr., Lombard LA, et al. Cloning of B7-2: a CTLA-4 counter-receptor that costimulates human T cell proliferation. Science 1993 Nov 5;262(5135):909-11.
3. June CH, Ledbetter JA, Linsley PS, Thompson CB. Role of the CD28 receptor in T-cell activation. Immunol Today 1990 Jun;11(6):211-6.
4. Ledbetter JA, Martin PJ, Spooner CE, Wofsy D, Tsu TT, Beatty PG, et al. Antibodies to Tp67 and Tp44 augment and sustain proliferative responses of activated T cells. J Immunol 1985 Oct;135(4):2331-6.
5. Moretta A, Pantaleo G, Lopez-Botet M, Moretta L. Involvement of T44 molecules in an antigen-independent pathway of T cell activation. Analysis of the correlations to the T cell antigen-receptor complex. J Exp Med 1985 Sep 1;162(3):823-38.

## 6. EXPLANATION OF SYMBOLS



Fluorochrome



Product reference



Content for <n> analysis



Regulatory Status



Research Use Only



Manufacturer

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



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