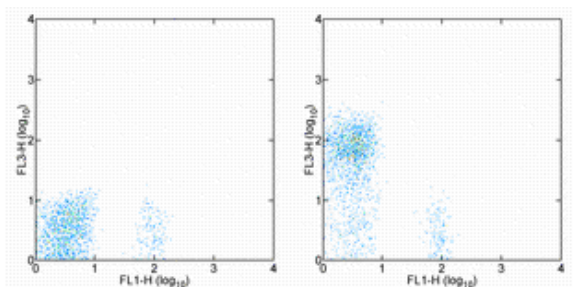


## Anti-Human CD28 PE-Cyanine7

**Catalog Number:** 25-0289

**RUO: For Research Use Only. Not for use in diagnostic procedures.**



Staining of normal human peripheral blood cells with Anti-Human CD19 FITC (cat. 11-0199) and Mouse IgG1 K Isotype Control PE-Cyanine7 (cat. 25-4714) (left) or Anti-Human CD28 PE-Cyanine7 (right). Cells in the lymphocyte gate were used for analysis.

### Product Information

**Contents:** Anti-Human CD28 PE-Cyanine7

**REF** **Catalog Number:** 25-0289

**Clone:** CD28.2

**Concentration:** 5 µL (0.25 µg)/test

**Host/Isotype:** Mouse IgG1, kappa

**HLDA Workshop:** V 5T CD28.05

**Formulation:** aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

**Temperature Limitation:** Store at 2-8°C. Do not freeze. Light-sensitive material. This tandem dye is sensitive to photo-induced oxidation. Protect this vial from light during storage, handling & experimental procedures.



**LOT**

**Batch Code:** Refer to Vial

**Use By:**

Refer to Vial



**Contains sodium azide**

### Description

The CD28.2 monoclonal antibody reacts with the human CD28 molecule, a 44 kDa homodimer expressed by thymocytes, mature T cells and plasma cells. CD28 is a ligand for CD80 (B7-1) and CD86 (B7-2) and is a potent co-stimulator of T cells. Signaling through CD28 augments IL-2 and IL-2 receptor expression as well as cytotoxicity of CD3-activated T cells.

### Applications Reported

This CD28.2 antibody has been reported for use in flow cytometric analysis.

### Applications Tested

This CD28.2 antibody has been pre-titrated and tested by flow cytometric analysis of human peripheral blood leukocytes. This can be used at 5 µL (0.25 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test.

**Light sensitivity:** This tandem dye is sensitive photo-induced oxidation. Please protect this vial and stained samples from light.

**Fixation:** Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL cell sample + 100 µL IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

### References

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Battifora M, Pesce G, Paolieri F, Fiorino N, Giordano C, Riccio AM, Torre G, Olive D, Bagnasco M. B7.1 costimulatory molecule is expressed on thyroid follicular cells in Hashimoto's thyroiditis, but not in Graves' disease. J Clin Endocrinol Metab. 1998 Nov;83(11):4130-9. (**CD28.1**, IHC frozen)

Nunès J, Klasen S, Ragueneau M, Pavon C, Couez D, Mawas C, Bagnasco M, Olive D. CD28 mAbs with distinct binding properties differ in their ability to induce T cell activation: analysis of early and late activation events. Int Immunol. 1993 Mar;5(3):311-5.

Schlossman, S., L. Bloumsell, et al eds. 1995. Leucocyte Typing V: White Cell Differentiation Antigens. Oxford University Press. New York.

**Related Products**

11-0199 Anti-Human CD19 FITC (HIB19)

25-4714 Mouse IgG1 K Isotype Control PE-Cyanine7 (P3.6.2.8.1)

**Legal**

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