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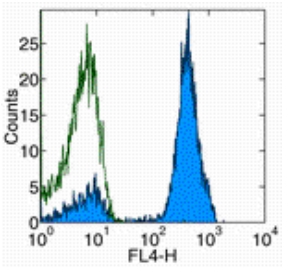
# Anti-Human CD28 APC

**Catalog Number:** 17-0289
**RUO: For Research Use Only. Not for use in diagnostic procedures.**




Staining of normal human peripheral blood cells with Mouse IgG1 K Isotype Control APC (cat. 17-4714) (open histogram) or Anti-Human CD28 APC (filled histogram). Cells in the lymphocyte population were used for analysis.

## Product Information

**Contents:** Anti-Human CD28 APC
REF **Catalog Number:** 17-0289
**Clone:** CD28.2
**Concentration:** 5 uL (0.25 ug)/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.
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

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

## Applications Tested

The 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 $10^5$ to $10^8$ cells/test.

## References

Karlsson I, Malleret B, Brochard P, Delache B, Calvo J, Le Grand R, Vaslin B. FoxP3+ CD25+ CD8+ T-cell induction during primary simian immunodeficiency virus infection in cynomolgus macaques correlates with low CD4+ T-cell activation and high viral load. J Virol. 2007 Dec;81(24):13444-55 (**CD28.1**, NHP crossreactivity)

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

17-4714 Mouse IgG1 K Isotype Control APC (P3.6.2.1)

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