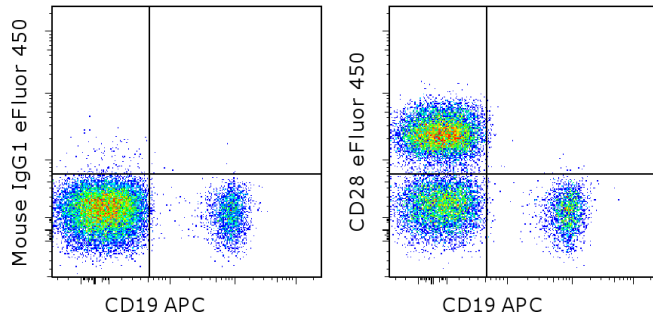


Anti-Human CD28 eFluor[®] 450

Catalog Number: 48-0289

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



Staining of normal human peripheral blood cells with Anti-Human CD19 APC (cat. 17-0199) and Mouse IgG1 K Isotype Control eFluor[®] 450 (cat. 48-4714) (left) or Anti-Human CD28 eFluor[®] 450 (right). Cells in the lymphocyte gate were used for analysis.

Product Information



Contents: Anti-Human CD28 eFluor[®] 450

Catalog Number: 48-0289

Clone: CD28.2

Concentration: 5 μ L (0.125 μ g)/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.

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 normal human peripheral blood cells. This can be used at 5 μ L (0.125 μ g) per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test.

eFluor[®] 450 is a replacement for Pacific Blue[®]. eFluor[®] 450 emits at 456 nm and is excited with the Violet laser (405 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

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*

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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

00-4222 Flow Cytometry Staining Buffer

17-0199 Anti-Human CD19 APC (HIB19)

48-4714 Mouse IgG1 K Isotype Control eFluor® 450 (P3.6.2.8.1)

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