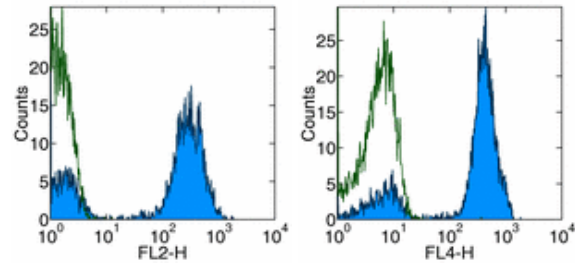


Product Information

Contents: Affinity Purified anti-human CD28 (costimulatory)
Catalog Number: 14-0289
Sizes: 25 ug, 100 ug
Formulation: Phosphate buffer pH 7.2,
150 mM NaCl, 0.09% NaN₃
Storage Conditions: Store at 4°C.
Avoid repeated freeze/thaw cycles.
Clone: CD28.2
Isotype: Mouse IgG1, κ
HLDA No.: V 5T CD28.05



Surface staining of normal human peripheral blood cells with anti-human CD28 (CD28.2) PE (left), and APC (right). Appropriate isotype controls were used (open histogram). Cells in the lymphocyte population were used for analysis.

Available Formats of This Product

Cat. No.	Format	Excite (nm)	Emit (nm)	Reported Applications
11-0289	FITC anti-human CD28 (costimulatory)	488	518	FC
12-0289	PE anti-human CD28 (costimulatory)	488	575	FC
13-0289	Biotin anti-human CD28 (costimulatory)	N/A	N/A	FC
14-0289	Affinity Purified anti-human CD28 (costimulatory)	N/A	N/A	FA FC IHC IP
16-0289	Functional Grade* Purified anti-human CD28 (costimulatory)	N/A	N/A	FA FC
17-0289	APC anti-human CD28 (costimulatory)	633	660	FC
25-0289	Phycoerythrin-Cy7 (PE-Cy7) anti-human CD28 (costimulatory)	488	760	FC

*Functional Grade™ (FG™): Azide-free, sterile-filtered, and endotoxin < 0.001 ng/μg.
Purified: Contains azide, not sterile-filtered, and not endotoxin tested.

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.

Usage

For research use only, not for diagnostic or therapeutic use. The CD28.2 antibody has been reported for use in flow cytometric analysis, immunoprecipitation, and immunohistochemical staining. The recommended titer for immunoprecipitation is ~ 2-5 μg per million cells. CD28.2 has also been reported in costimulation of T cells in *in vitro* functional assays. (Please use Functional Grade purified CD28.2, cat. 16-0289, in functional assays.)

Applications Tested

The CD28.2 antibody has been tested by flow cytometric analysis of human peripheral blood leukocytes. This can be used at less than or equal to 1 μg per 100 μl blood (or per 1 million cells in 100 μl total staining volume). It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Related Products

Cat. 11-0289 FITC anti-human CD28 (costimulatory) (clone CD28.2)
Cat. 12-0289 PE anti-human CD28 (costimulatory) (clone CD28.2)
Cat. 13-0289 Biotin anti-human CD28 (costimulatory) (clone CD28.2)

Cat. 16-0289 Functional Grade Purified anti-human CD28 (costimulatory) (clone CD28.2)
Cat. 17-0289 APC anti-human CD28 (costimulatory) (clone CD28.2)
Cat. 11-4011 FITC Anti-Mouse IgG
Cat. 13-4013 Biotin Anti-Mouse IgG (clone Polyclonal)
Cat. 11-4317 Streptavidin-FITC (Fluorescein isothiocyanate)
Cat. 12-4317 Streptavidin-PE (Phycoerythrin)
Cat. 17-4317 Streptavidin Allophycocyanin (SA-APC)
Cat. 14-4714 Affinity Purified Mouse IgG1, K Isotype Control

References

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

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