
Anti-Human CD28 Functional Grade Purified

Catalog Number: 16-0288

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

Product Information

Contents: Anti-Human CD28 Functional Grade Purified
Catalog Number: 16-0288
Clone: CD28.6
Concentration: 1 mg/mL
Host/Isotype: Mouse IgG2a, kappa
HLDA Workshop: V T-CD28.09
Handling Conditions: Use in sterile environment.
Endotoxin: Less than 0.001 ng/ug antibody, as determined by the LAL assay.

Formulation: aqueous buffer, no sodium azide
Temperature Limitation: Store at 2-8°C.

Batch Code: Refer to vial

Use By: Refer to vial



Description

The CD28.6 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 costimulator of T cells. Signaling through CD28 augments IL-2 and IL-2 receptor expression as well as cytotoxicity of CD3-activated T cells. The CD28.6 antibody has been reported for use in immunoblotting (WB) and neutralization studies and costimulation in the production of IL-2.

Applications Reported

The CD28.6 antibody has been reported for use in flow cytometric analysis, and immunoblotting (WB). The recommended titer for WB is (~1 µg/ml). CD28.6 has also been reported in in vitro functional assays, both blocking and co-stimulatory activities have been reported for this clone (please see references below).

Applications Tested

The CD28.6 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 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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

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Zhang XG, Olive D, Devos J, Rebouissou C, Ghiotto-Ragueneau M, Ferlin M, Klein B. Malignant plasma cell lines express a functional CD28 molecule. *Leukemia*. 1998 Apr;12(4):610-8 (**CD28.6**, blocking FA, PubMed)

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

Kariv I, Truneh A, Sweet RW. Analysis of the site of interaction of CD28 with its counter-receptors CD80 and CD86 and correlation with function. *J Immunol*. 1996 Jul 1;157(1):29-38 (**CD28.6**, blocking FA, PubMed)

Bryan RG, Li Y, Lai JH, Van M, Rice NR, Rich RR, Tan TH. Effect of CD28 signal transduction on c-Rel in human peripheral blood T cells. *Mol Cell Biol*. 1994 Dec;14(12):7933-42. (**CD28.6**, stimulatory, PubMed)

Nunes 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.

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Related Products

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11-4317 Streptavidin FITC
12-4317 Streptavidin PE
13-4013 Anti-Mouse IgG Biotin (Polyclonal)
16-4724 Mouse IgG2a K Isotype Control Functional Grade Purified
17-4317 Streptavidin APC

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