

## Product Information

Contents: Functional Grade Purified anti-human CD28  
Catalog Number: 16-0288  
Sizes: 50 ug, 500 ug  
Formulation: Phosphate buffer pH 7.2,  
150 mM NaCl, No NaN<sub>3</sub>  
Storage Conditions: Store at 4°C.  
Avoid repeated freeze/thaw cycles.  
KEEP CONTENT STERILE.  
Endotoxin Level: Less than 0.001 ng/ug antibody, as determined by the LAL assay.  
Clone: CD28.6  
Isotype: Mouse IgG2a, κ  
HLDA No.: V T-CD28.09

### Available Formats of This Product

Cat. No.	Format	Excite (nm)	Emit (nm)	Reported Applications
16-0288	Functional Grade* Purified anti-human CD28 (blocking)	N/A	N/A	FA FC WB

\*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 CD28.6 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 prevention of interaction with B7.

## Usage

For research use only, not for diagnostic or therapeutic use. The CD28.6 antibody has been reported for use in flow cytometric analysis, and immunoblotting (WB). CD28.6 has also been reported in *in vitro* functional assays. The recommended titer for WB is (~1 μg/ml)

## 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 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. 11-4011 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. 16-4724 Functional Grade Purified Mouse IgG2a, 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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