CD28 Monoclonal Antibody (CD28.2), Super Bright™ 600, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Super Bright™ 600, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	CD28.2
Conjugate	Super Bright™ 600
Excitation/Emission Max	414/601 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2762538

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.5 µg)/test	11 Publications
Functional Assay (FN)	-	1 Publication

Product Specific Information

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-diluted and tested by flow cytometric analysis of normal human peripheral blood cells. This may be used at 5 µL (0.5 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.

Super Bright 600 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 600 nm. We recommend using a 610/20 bandpass filter. Please make sure that your instrument is capable of detecting this fluorochrome.

When using two or more Super Bright dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer for more information.

Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from

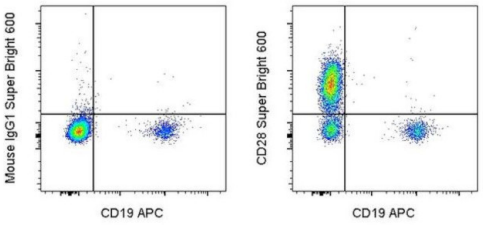
light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222-49) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333-57) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 405 nm; Emission: 600 nm; Laser: Violet Laser

Super Bright Polymer Dyes are sold under license from Becton, Dickinson and Company.

Product Images For CD28 Monoclonal Antibody (CD28.2), Super Bright™ 600, eBioscience™



CD28 Antibody (63-0289-42) in Flow
Normal human peripheral blood cells were stained with CD19 Monoclonal Antibody, APC (Product # 17-0199-42) and Mouse IgG1 kappa Isotype Control, Super Bright 600 (Product # 63-4714-82) (left) or CD28 Monoclonal Antibody, Super Bright 600 (right). Cells in the lymphocyte gate were used for analysis.

View more figures on thermofisher.cn

12 References

Flow Cytometry (11)

Frontiers in immunology

Year
2023

CHI3L1 enhances melanoma lung metastasis *via* regulation of T cell co-stimulators and CTLA-4/B7 axis.

"Published figure using CD28 monoclonal antibody (Product # 63-0289-42) in Flow Cytometry"

Authors: Ma B,Kamle S,Akosman B,Khan H,Lee CM,Lee CG,Elias JA

Frontiers in immunology

Year
2021

Differences in Maturation Status and Immune Phenotypes of Circulating Helios^{+} and Helios^{-} Tregs and Their Disrupted Correlations With Monocyte Subsets in Autoantibody-Positive T1D Individuals.

"Published figure using CD28 monoclonal antibody (Product # 63-0289-42) in Flow Cytometry"

Authors: Zhang Y,Zhang J,Shi Y,Shen M,Lv H,Chen S,Feng Y,Chen H,Xu X,Yang T,Xu K

View more Flow references on thermofisher.cn

Functional Assay (1)

ImmunoHorizons

Year
2020

RAB11FIP5-Deficient Mice Exhibit Cytokine-Related Transcriptomic Signatures.

"Published figure using CD28 monoclonal antibody (Product # 63-0289-42) in Functional assay"

Authors: Li D,Bradley T,Cain DW,Pedroza-Pacheco I,Aggelakopoulou M,Parks R,Barr M,Xia SM,Scearce R,Bowman C, Stevens G,Newman A,Hora B,Chen Y,Riebe K,Wang Y,Sempowski G,Saunders KO,Borrow P,Haynes BF

More applications with references on thermofisher.cn

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