

CD80 (B7-1) Monoclonal Antibody (16-10A1), Super Bright™ 645, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Dog, Mouse, Pig
Host/Isotype	Armenian hamster / IgG
Recommended Isotype Control	Armenian Hamster IgG Isotype Control (eBio299Arm), Super Bright™ 645, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	16-10A1
Conjugate	Super Bright™ 645
Excitation/Emission Max	414/645 nm
Form	Liquid
Concentration	0.2 mg/mL
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_2663121

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	0.125 µg/test	33 Publications

Product Specific Information

Description: The 16-10A1 monoclonal antibody reacts with mouse CD80 (B7-1), a 55 kDa member of the Ig superfamily. CD80 is expressed by macrophages, dendritic cells and activated B cells. In addition, activated T cells express this antigen. CD80 has high affinity for binding to two T cell surface antigens, CD28 and CD152 (CTLA-4). The interaction of CD28 and CD152 with CD80 is crucial in T-B cell communication leading to activation of T and B cells, respectively.

Applications Reported: This 16-10A1 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This 16-10A1 antibody has been tested by flow cytometric analysis of stimulated mouse splenocytes. This can be used at less than or equal to 0.25 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.

Super Bright 645 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 645 nm. We recommend using a 660/20 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.

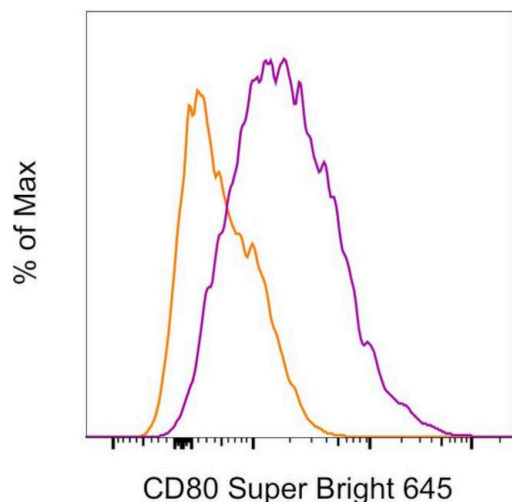
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 μ L of cell sample + 100 μ L of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333) 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:** 645 nm; **Laser:** Violet Laser

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

Product Images For CD80 (B7-1) Monoclonal Antibody (16-10A1), Super Bright™ 645, eBioscience™



CD80 (B7-1) Antibody (64-0801-82) in Flow

C57BL/6 mouse splenocytes were unstimulated (orange histogram) or stimulated for 72 hours with LPS (Product # 00-4976-03) (purple histogram). Cells were then stained with 0.125 μ g of CD80 Monoclonal Antibody, Super Bright 645. Total viable cells were used for analysis, as determined by Fixable Viability Dye eFluor 506 (Product # 65-0866-14).

[View more figures on thermofisher.com](https://www.thermofisher.com)

Immunohistochemistry (1)

Experimental and therapeutic medicine

Receptor-selective interleukin-4 mutein attenuates laser-induced choroidal neovascularization through the regulation of macrophage polarization in mice.

"Published figure using CD80 (B7-1) monoclonal antibody (Product # 64-0801-82) in Immunocytochemistry"

Authors: Gao L, Jiang W, Liu H, Chen Z, Lin Y

Year
2021

Immunocytochemistry (1)

Life (Basel, Switzerland)

Bim Expression Promotes the Clearance of Mononuclear Phagocytes during Choroidal Neovascularization, Mitigating Scar Formation in Mice.

"Published figure using CD80 (B7-1) monoclonal antibody (Product # 64-0801-82) in Immunocytochemistry"

Authors: Wang S, Zaitoun IS, Darjatmoko SR, Sheibani N, Sorenson CM

Year
2022

Flow Cytometry (33)

Bioactive materials

Spontaneous immunomodulation and regulation of angiogenesis and osteogenesis by Sr/Cu-borosilicate glass (BSG) bone cement to repair critical bone defects.

"Published figure using CD80 (B7-1) monoclonal antibody (Product # 64-0801-82) in Flow Cytometry"

Authors: Li S, Zhang L, Liu C, Kim J, Su K, Chen T, Zhao L, Lu X, Zhang H, Cui Y, Cui X, Yuan F, Pan H

Year
2023

Bioactive materials

A platinum@polymer-catechol nanobroker enables radio-immunotherapy for crippling melanoma tumorigenesis, angiogenesis, and radioresistance.

"Published figure using CD80 (B7-1) monoclonal antibody (Product # 64-0801-82) in Flow Cytometry"

Authors: Li W, Yan J, Tian H, Li B, Wang G, Sang W, Zhang Z, Zhang X, Dai Y

Year
2023

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More applications with references on thermofisher.com

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