

# CD80 (B7-1) Monoclonal Antibody (16-10A1), Super Bright™ 436, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Dog, Mouse, Pig
Published Species	Mouse
Host/Isotype	Armenian hamster / IgG
Recommended Isotype Control	Armenian Hamster IgG Isotype Control (eBio299Arm), Super Bright™ 436, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	16-10A1
Conjugate	Super Bright™ 436
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_2716995

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.06 µg/test	5 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 may be used at less than or equal to 0.06 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<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Super Bright 436 can be excited with the violet laser line (405 nm) and emits at 436 nm. We recommend using a 450/50 bandpass filter, or equivalent. Please make sure that your instrument is capable of detecting this fluorochrome.

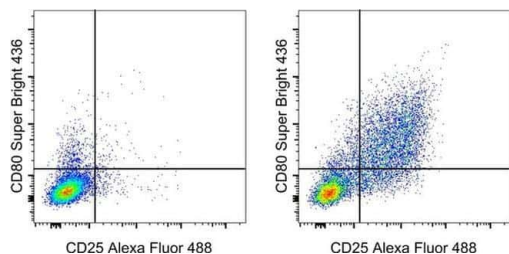
When using two or more Super Bright dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401) to minimize any non-specific polymer interactions. Please refer to the datasheet for

Super Bright Staining Buffer for more information.

Excitation: 405 nm; Emission: 436 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™ 436, eBioscience™



### CD80 (B7-1) Antibody (62-0801-82) in Flow

BALB/c mouse splenocytes were unstimulated (left) or stimulated for 48 hours with LPS (Product # 00-4976-03) (right). Cells were then stained with CD25 Monoclonal Antibody, eFluor 450 (Product # 48-0251-82) and 0.03 µg of CD80 (B7-1) Monoclonal Antibody, Super Bright 436. Cells in the lymphocyte gate were used for analysis.

[View more figures on thermofisher.com](#)

## 5 References

### Flow Cytometry (5)

Journal of hematology & oncology

#### Cell-permeable transgelin-2 as a potent therapeutic for dendritic cell-based cancer immunotherapy.

"Published figure using CD80 (B7-1) monoclonal antibody (Product # 62-0801-82) in Flow Cytometry"

Authors: Kim HR, Park JS, Park JH, Yasmin F, Kim CH, Oh SK, Chung IJ, Jun CD

Year  
2021

Cell reports

#### Airway Microbiota-Host Interactions Regulate Secretory Leukocyte Protease Inhibitor Levels and Influence Allergic Airway Inflammation.

"62-0801 was used in Flow cytometry/Cell sorting to investigate how chronic colonization impacts mucosal immunity and the development of allergic airway inflammation (AAI)."

Authors: Jaeger N, McDonough RT, Rosen AL, Hernandez-Leyva A, Wilson NG, Lint MA, Russler-Germain EV, Chai JN, Bacharier LB, Hsieh CS, Kau AL

Year  
2020

Species  
Mouse

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## More applications with references on thermofisher.com

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