

# CD80 (B7-1) Monoclonal Antibody (16-10A1), PE, 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), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	16-10A1
Conjugate	PE
Excitation/Emission Max	565/576 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_465752

Applications	Tested Dilution	Publications
Immunohistochemistry (PFA fixed) (IHC (PFA))	-	1 Publication
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	0.06 µg/test	129 Publications
In vitro Assay (IV)	-	1 Publication

## 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.

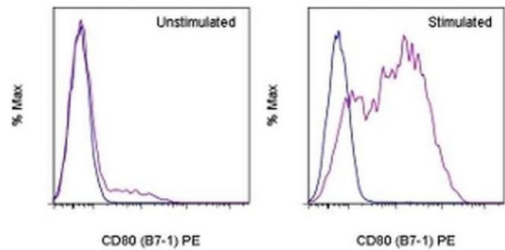
**Applications Reported:** The 16-10A1 antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** The 16-10A1 antibody has been tested by flow cytometric analysis of stimulated mouse splenocytes. This can be used at less than or equal to 0.06 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.

**Excitation:** 488-561 nm; **Emission:** 578 nm; **Laser:** Blue Laser, Green Laser, Yellow-Green Laser.

**Filtration:** 0.2 µm post-manufacturing filtered.

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



**CD80 (B7-1) Antibody (12-0801-82) in Flow**  
Mouse splenocytes were unstimulated (left) or stimulated for 2 days with F (ab')<sub>2</sub> Anti-Mouse IgM, u chain specific Functional Grade Purified (Product # 16-5092-85) and Anti-Mouse CD40 Functional Grade Purified (Product # 16-0401-82) (right). Cells were then stained with Anti-Human/Mouse CD45R (B220) FITC (Product # 11-0452-82) and 0.03 µg of Armenian Hamster IgG Isotype Control PE (Product # 12-4888-81) (blue histogram) or 0.03 µg of Anti-Mouse CD80 (B7-1) PE (purple histogram). Cell in the CD45R (B220) positive gate were used for analysis.

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

132 References

Immunohistochemistry (PFA fixed) (1)

<b>Nature communications</b> <b>Intronic regulation of Aire expression by Jmjd6 for self-tolerance induction in the thymus.</b> "12-0801 was used in Immunohistochemistry on frozen tissues to study the regulation of Aire expression in medullary thymic epithelial cells." Authors: Yanagihara T,Sanematsu F,Sato T,Uruno T,Duan X,Tomino T,Harada Y,Watanabe M,Wang Y,Tanaka Y, Nakanishi Y,Suyama M,Yoshinori F	<b>Year</b> 2015  <b>Species</b> Mouse  <b>Dilution</b> 1:1,000
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Immunocytochemistry (1)

<b>Cellular &amp; molecular immunology</b> <b>Trogocytosis of CD80 and CD86 by induced regulatory T cells.</b> "12-0801 was used in Flow cytometry/Cell sorting to provide a novel understanding of the interaction between iTregs and DCs, and its role in iTreg-mediated immune suppression." Authors: Gu P,Gao JF,D'Souza CA,Kowalczyk A,Chou KY,Zhang L	<b>Year</b> 2012  <b>Species</b> Mouse
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Flow Cytometry (129)

<b>Bioactive materials</b> <b>Spontaneous immunomodulation and regulation of angiogenesis and osteogenesis by Sr/Cu-borosilicate glass (BSG) bone cement to repair critical bone defects.</b> "Published figure using CD80 (B7-1) monoclonal antibody (Product # 12-0801-82) 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	<b>Year</b> 2023
<b>Bioactive materials</b> <b>A platinum@polymer-catechol nanobroker enables radio-immunotherapy for crippling melanoma tumorigenesis, angiogenesis, and radioresistance.</b> "Published figure using CD80 (B7-1) monoclonal antibody (Product # 12-0801-82) in Flow Cytometry" Authors: Li W,Yan J,Tian H,Li B,Wang G,Sang W,Zhang Z,Zhang X,Dai Y	<b>Year</b> 2023

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