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

Product Details	
Size	100 µg
Species Reactivity	Dog, Mouse, Pig
Published Species	Mouse
Host/Isotope	Armenian hamster / IgG
Recommended Isotype Control	Armenian Hamster IgG Isotype Control (eBio299Arm), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	16-10A1
Conjugate	PE
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_465752

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.06 µg/test	83 Publications
Immunocytochemistry (ICC)	-	1 Publication
Immunofluorescence (IF)	-	1 Publication
Immunohistochemistry (PFA fixed) (IHC (PFA))	-	1 Publication
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.

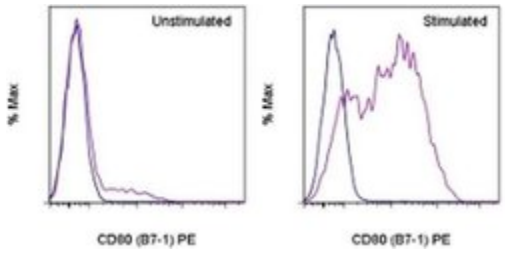
Applications Reported: The 16-10A1 antibody has been reported for use in flow cytometric analysis.

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 10^5 to 10^8 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')2 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

87 References

Flow Cytometry (83)

Frontiers in immunology

FcRI -Chain Negatively Modulates Dectin-1 Responses in Dendritic Cells.

"Published figure using CD80 (B7-1) monoclonal antibody (Product # 12-0801-82) in Flow Cytometry"

Authors: Pan YG,Yu YL,Lin CC,Lanier LL,Chu CL

Species
Mouse
Not Applicable

Dilution
Not Cited
Not Cited

Year
2019

American journal of translational research

Thiol peroxiredoxin, a novel allergen from *Bombyx mori*, modulates functions of macrophages and dendritic cells.

"Published figure using CD80 (B7-1) monoclonal antibody (Product # 12-0801-82) in Flow Cytometry"

Authors: Wang H,Hu W,Liang Z,Zeng L,Li J,Yan H,Yang P,Liu Z,Wang L

Species
Mouse

Dilution
Not Cited

Year
2019

View more Flow references on thermofisher.com

In vitro Assay (1)

Immunology

Macrophages transfer antigens to dendritic cells by releasing exosomes containing dead-cell-associated antigens partially through a ceramide-dependent pathway to enhance CD4(+) T-cell responses.

"12-0801 was used in In vitro assays to identify a novel pathway of cross-talk between macrophages and dendritic cells."

Authors: Xu Y,Liu Y,Yang C,Kang L,Wang M,Hu J,He H,Song W,Tang H

Species
Mouse

Dilution
Not Cited

Year
2016

Immunofluorescence (1)

Nature communications

Intronic regulation of Aire expression by Jmjd6 for self-tolerance induction in the thymus.

"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

Species
Mouse

Dilution
1:1000

Year
2015

More applications with references on thermofisher.com

IHC (PFA) (1) **ICC (1)**

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