

CD80 (B7-1) Monoclonal Antibody (2D10.4), PE, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	2D10.4
Conjugate	PE
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin, 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_1311209

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.5 µg)/test	17 Publications
Functional Assay (FN)	-	1 Publication

Product Specific Information

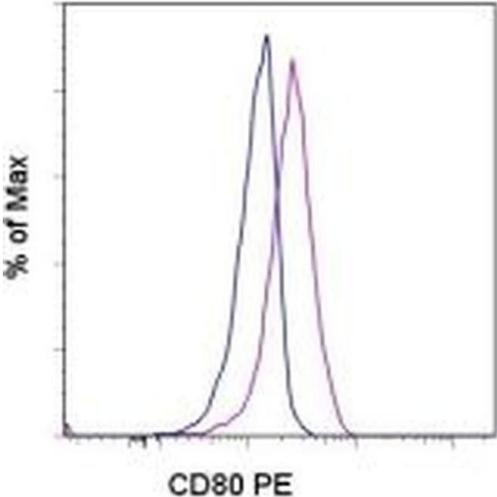
Description: The 2D10.4 monoclonal antibody reacts with human CD80 (B7-1), a 60 kDa member of the Ig superfamily. CD80 is expressed by activated B cells, macrophages and dendritic cells. In addition, activated T cells express this antigen. CD80 has high affinity for binding to two T cell surface antigens, 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 2D10.4 antibody has been reported for use in flow cytometric analysis.

Applications Tested: The 2D10.4 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can 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 10⁵ to 10⁸ cells/test.

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

Filtration: 0.2 µm post-manufacturing filtered.



CD80 (B7-1) Antibody (12-0809-42) in Flow
Staining of the Daudi cell line with Mouse IgG1 kappa Isotype Control PE (Product # 12-4714-81) (blue histogram) or Anti-Human CD80 (B7-1) PE (purple histogram). Total viable cells were used for analysis.

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

18 References

Flow Cytometry (17)

PLoS pathogens

Response of human macrophages to gamma radiation is mediated via expression of endogenous retroviruses.

"Published figure using CD80 (B7-1) monoclonal antibody (Product # 12-0809-42) in Flow Cytometry"

Authors: Mikhalkevich N, O'Carroll IP, Tkavc R, Lund K, Sukumar G, Dalgard CL, Johnson KR, Li W, Wang T, Nath A, Iordanskiy S

Species
Not Applicable

Dilution
Not Cited

Year
2021

Frontiers in immunology

Role of Nuclear Factor (Erythroid-Derived 2)-Like 2 Signaling for Effects of Fumaric Acid Esters on Dendritic Cells.

Authors: Hammer A, Waschbisch A, Knippertz I, Zinser E, Berg J, Jörg S, Kuhbandner K, David C, Pi J, Bayas A, Lee DH, Haghikia A, Gold R, Steinkasserer A, Linker RA

Species
Human

Dilution
Not Cited

Year
2019

[View more Flow references on thermofisher.com](#)

Functional Assay (1)

The Journal of clinical investigation

Renal allograft rejection is prevented by adoptive transfer of anergic T cells in nonhuman primates.

Authors: Bashuda H, Kimikawa M, Seino K, Kato Y, Ono F, Shimizu A, Yagita H, Teraoka S, Okumura K

Species
Not Applicable

Dilution
Not Cited

Year
2005

More applications with references on thermofisher.com

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