

CD80 (B7-1) Monoclonal Antibody (2D10.4), PerCP-eFluor™ 710, 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), PerCP-eFluor™ 710, eBioscience™
Class	Monoclonal
Туре	Antibody
Clone	2D10.4
Conjugate	PerCP-eFluor™ 710
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_10548359

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 μL (0.5 μg)/test	7 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: This 2D10.4 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This 2D10.4 antibody has been pre-titrated and tested by flow cytometric analysis of Daudi cell line. 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.

PerCP-eFluor® 710 emits at 710 nm and is excited with the blue laser (488 nm); it can be used in place of PerCP-Cyanine5.5. We recommend using a 710/50 bandpass filter, however, the 695/40 bandpass filter is an acceptable alternative. Please make sure that your instrument is capable of detecting this fluorochrome.

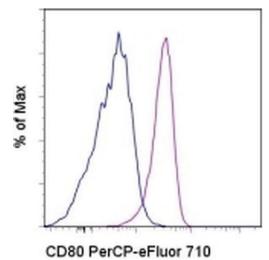
Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL cell sample + 100 µL IC Fixation Buffer) or 1-step Fix

/Lyse Solution (cat. 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: 488 nm; Emission: 710 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD80 (B7-1) Monoclonal Antibody (2D10.4), PerCP-eFluor™ 710, eBioscience™



CD80 (B7-1) Antibody (46-0809-42) in Flow

Staining of the Daudi cell line with Mouse IgG1 K Isotype Control PerCP-eFluor® 710 (Product # 46-4714-82) (blue histogram) or Anti-Human CD80 (B7-1) PerCP-eFluor® 710 (purple histogram). Total viable cells were used for analysis.

View more figures on thermofisher.com

■ 8 References

Flow Cytometry (7)

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 # 46-0809-42) 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

Not Applicabl

Dilution Not Cited

Year 2021

Cell reports

Mesenchymal Stem and Stromal Cells Harness Macrophage-Derived Amphiregulin to Maintain Tissue Homeostasis.

"46-0809-42 was used in Flow Cytometry to demonstrate the role of mesenchymal stem and stromal cell and macrophage cross-talk in post-injury tissue homeostasis in mice."

Authors: Ko JH, Kim HJ, Jeong HJ, Lee HJ, Oh JY

Species Human

DilutionNot Cited

Year 2020

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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