

CD80 (B7-1) Monoclonal Antibody (2D10.4), FITC, 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), FITC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	2D10.4
Conjugate	FITC
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_10853194

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	5 µL (1 µg)/test	12 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.

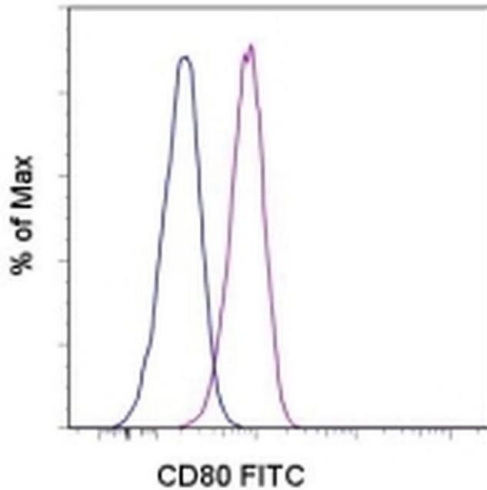
Applications Reported: The 2D10.4 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This 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 (1 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 nm; Emission: 520 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

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



CD80 (B7-1) Antibody (11-0809-42) in Flow

Staining of the Daudi cell line with Mouse IgG1 kappa Isotype Control FITC (Product # 11-4714-42) (blue histogram) or Anti-Human CD80 (B7-1) FITC (purple histogram). Total viable cells were used for analysis.

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

14 References

Immunocytochemistry (1)

OncoTargets and therapy

A DNA vaccine encoding mutated HPV58 mE6E7-Fc-GPI fusion antigen and GM-CSF and B7.1.

"Published figure using CD80 (B7-1) monoclonal antibody (Product # 11-0809-42) in Immunofluorescence"

Authors: Wang H, Yu J, Li L

Species
Human

Dilution
Not Cited

Year
2015

Flow Cytometry (12)

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 # 11-0809-42) 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

Dexamethasone and Monophosphoryl Lipid A Induce a Distinctive Profile on Monocyte-Derived Dendritic Cells through Transcriptional Modulation of Genes Associated With Essential Processes of the Immune Response.

"11-0809 was used in Flow cytometry/Cell sorting to study the transcriptional profile of monocyte-derived dendritic cells from healthy subjects to identify molecular regulators and pathways associated with the induction of tolerogenic properties in tolerogenic dendritic cells."

Authors: García-González PA, Schinnerling K, Sepúlveda-Gutiérrez A, Maggi J, Mehdi AM, Nel HJ, Pesce B, Larrondo ML, Aravena O, Molina MC, Catalán D, Thomas R, Verdugo RA, Aguilón JC

Species
Human

Dilution
Not Cited

Year
2019

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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