

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

Product Details

Size	100 µg
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Biotin, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	2D10.4
Conjugate	Biotin
Form	Liquid
Concentration	0.5 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_466513

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	1 µg/test	8 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 tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at less than or equal to 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. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Filtration: 0.2 µm post-manufacturing filtered.

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 # 13-0809-82) in Immunofluorescence"

Authors: Wang H,Yu J,Li L

Year
2015

Species
Human

Flow Cytometry (8)

Aging cell

B cell-intrinsic changes with age do not impact antibody-secreting cell formation but delay B cell participation in the germinal centre reaction.

"Published figure using CD80 (B7-1) monoclonal antibody (Product # 13-0809-82) in Flow Cytometry"

Authors: Lee JL,Fra-Bido SC,Burton AR,Innocentin S,Hill DL,Linterman MA

Year
2022

Journal of inflammation research

Different Induction of PD-L1 (CD274) and PD-1 (CD279) Expression in THP-1-Differentiated Types 1 and 2 Macrophages.

"Published figure using CD80 (B7-1) monoclonal antibody (Product # 13-0809-82) in Flow Cytometry"

Authors: Lai CY,Tseng PC,Chen CL,Satria RD,Wang YT,Lin CF

Year
2022

[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

Year
2005

More applications with references on thermofisher.com

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