

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

Product Details

Size	100 µg
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	2D10.4
Conjugate	Unconjugated
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
RRID	AB_467350

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	-	3 Publications
Flow Cytometry (Flow)	1 µg/test	11 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.

Purity: Greater than 90%, as determined by SDS-PAGE.

Aggregation: Less than 10%, as determined by HPLC.

Filtration: 0.2 µm post-manufacturing filtered.

15 References

Immunocytochemistry (3)

<p>OncoTargets and therapy</p> <p>A DNA vaccine encoding mutated HPV58 mE6E7-Fc-GPI fusion antigen and GM-CSF and B7.1.</p> <p>"Published figure using CD80 (B7-1) monoclonal antibody (Product # 14-0809-82) in Immunofluorescence"</p> <p>Authors: Wang H,Yu J,Li L</p>	<p>Species Human</p> <p>Dilution Not Cited</p> <p>Year 2015</p>
<p>Oncotarget</p> <p>Contact-dependent carcinoma aggregate dispersion by M2a macrophages via ICAM-1 and 2 integrin interactions.</p> <p>"14-0809 was used in Immunocytochemistry-immunofluorescence to study the role of individual subtypes of macrophages in human lung adenocarcinoma aggregate dispersion, as a representation of epithelial-mesenchymal transition."</p> <p>Authors: Bai J,Adriani G,Dang TM,Tu TY,Penny HX,Wong SC,Kamm RD,Thierry JP</p>	<p>Species Human</p> <p>Dilution Not Cited</p> <p>Year 2015</p>

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Flow Cytometry (11)

<p>PLoS pathogens</p> <p>Response of human macrophages to gamma radiation is mediated via expression of endogenous retroviruses.</p> <p>"Published figure using CD80 (B7-1) monoclonal antibody (Product # 14-0809-82) in Flow Cytometry"</p> <p>Authors: Mikhalkevich N,O'Carroll IP,Tkavc R,Lund K,Sukumar G,Dalgard CL,Johnson KR,Li W,Wang T,Nath A, Iordanskiy S</p>	<p>Species Not Applicable</p> <p>Dilution Not Cited</p> <p>Year 2021</p>
<p>Nutrients</p> <p>Astragalus polysaccharides (PG2) Enhances the M1 Polarization of Macrophages, Functional Maturation of Dendritic Cells, and T Cell-Mediated Anticancer Immune Responses in Patients with Lung Cancer.</p> <p>"Published figure using CD80 (B7-1) monoclonal antibody (Product # 14-0809-82) in Flow Cytometry"</p> <p>Authors: Bamodu OA,Kuo KT,Wang CH,Huang WC,Wu ATH,Tsai JT,Lee KY,Yeh CT,Wang LS</p>	<p>Species Not Applicable</p> <p>Dilution Not Cited</p> <p>Year 2019</p>

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FN (1)

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