

CD80 (B7-1) Monoclonal Antibody (2D10.4), Brilliant Violet™ 711, eBioscience™

Product Details	
Size	25 Tests
Species Reactivity	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Brilliant Violet™ 711, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	2D10.4
Conjugate	Brilliant Violet™ 711
Excitation/Emission Max	406/711 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2925575

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.5 µg)/test	-

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-diluted and tested by flow cytometric analysis of Raji cells. This may 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.

Brilliant Violet™ 711 (BV711) is a tandem dye that emits at 713 nm and is intended for use on cytometers equipped with a violet (405 nm) laser. Please make sure that your instrument is capable of detecting this fluorochrome.

When using two or more Super Bright, Brilliant Violet™, Brilliant Ultra Violet™, or other polymer dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401-42) or Brilliant Stain Buffer™ (Product # 00-4409-75) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer or Brilliant Stain Buffer for more information.

Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

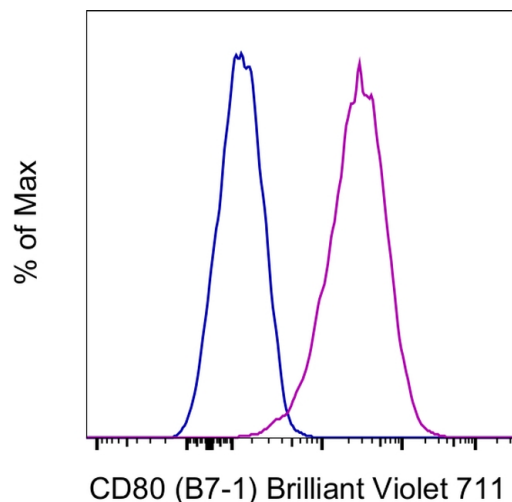
Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222-49) (100 μ L of cell sample + 100 μ L of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333-54) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone-specific performance should be determined empirically.

Our internal testing suggests that Brilliant Violet™ 711 (BV711) is not compatible with methanol-based fixation.

Excitation: 407 nm; Emission: 713 nm; Laser: Violet Laser.

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Product Images For CD80 (B7-1) Monoclonal Antibody (2D10.4), Brilliant Violet™ 711, eBioscience™



CD80 (B7-1) Antibody (407-0809-41) in Flow

Raji cells were stained with Mouse IgG1 kappa Isotype Control, Brilliant Violet 711 (Product # 407-4714-81) (blue histogram) or CD80 (B7-1) Monoclonal Antibody, Brilliant Violet 711 (purple histogram). Viable cells were used for analysis, as determined by 7-AAD (Product # 00-6993-50).

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