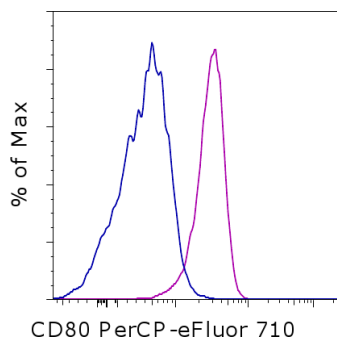


## Anti-Human CD80 (B7-1) PerCP-eFluor<sup>®</sup> 710

**Catalog Number:** 46-0809

**Also known as:** B71, BB1

**RUO: For Research Use Only. Not for use in diagnostic procedures.**



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

### Product Information

**Contents:** Anti-Human CD80 (B7-1) PerCP-eFluor<sup>®</sup> 710

**REF** **Catalog Number:** 46-0809

**Clone:** 2D10.4

**Concentration:** 5  $\mu$ L (0.5  $\mu$ g)/test

**Host/Isotype:** Mouse IgG1, kappa

**HLDA Workshop:** VI B-CD80.1

**Formulation:** aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

**Temperature Limitation:** Store at 2-8°C. Do not freeze. Light sensitive material.

**Batch Code:** Refer to vial

**Use By:** Refer to vial

**Contains sodium azide**



**LOT**



### 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  $\mu$ L (0.5  $\mu$ g) per test. A test is defined as the amount ( $\mu$ g) of antibody that will stain a cell sample in a final volume of 100  $\mu$ L. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test.

**PerCP-eFluor<sup>®</sup> 710 can be used in place of PE-Cy5, PE-Cy5.5 or PerCP-Cy5.5. PerCP-eFluor<sup>®</sup> 710 emits at 710 nm and is excited with the blue laser (488 nm). Please make sure that your instrument is capable of detecting this fluorochrome. For a filter configuration, we recommend using the 685 LP dichroic mirror and 710/40 band pass filter, however the 695/40 band pass filter is an acceptable alternative.**

**Fixation:** Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100  $\mu$ L cell sample + 100  $\mu$ L 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.

### References

Bashuda, H., Kimikawa, M., Seino, K., Kato, Y., Ono, F., Shimizu, A., Yagita, H., Teraoka, S., and K. Okumura. 2005. Renal allograft rejection is prevented by adoptive transfer of anergic T cells in nonhuman primates. J Clin

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Invest.115:1896-1902. (2D10.4, FA, PubMed)

Kishimoto, T., A.E.G., von dem Borne, et al. eds. 1998 .Leucocyte Typing VI: White Cell Differentiation Antigens. Garland Publishing Inc. London.

### **Related Products**

46-4714 Mouse IgG1 K Isotype Control PerCP-eFluor® 710 (P3.6.2.8.1)