

TECHNICAL DATA SHEET

APC Anti-Human CD80 (B7-1) (2D10.4)

Catalog Number: 20-0809

PRODUCT INFORMATION

Contents: APC Anti-Human CD80 (B7-1) (2D10.4)

Isotype: Mouse IgG1, kappa

Concentration: 5µl (0.5µg)/test

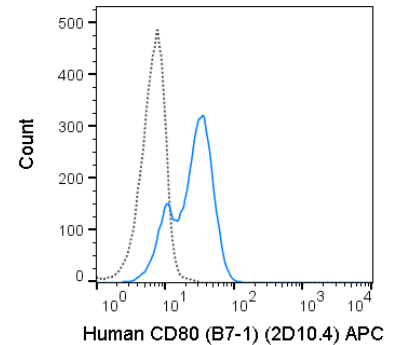
Clone: 2D10.4

Reactivity: Human

Use By: 12 months from date of receipt

Storage Conditions: 2-8°C protected from light

Formulation: 10 mM NaH₂PO₄, 150 mM NaCl, 0.09% NaN₃, 0.1% gelatin, pH7.2



Staining of the Daudi cell line with 5 µl (0.5 µg) APC Anti-Human CD80 (20-0809) (solid line) or 0.5 µg APC Mouse IgG1 isotype control (dashed line).

DESCRIPTION

The 2D10.4 antibody reacts with human CD80, a 60 kDa glycoprotein that is a member of the Ig superfamily. CD80, also known as B7-1, is a ligand for the T cell receptors CD28 and CTLA-4 (CD152). Along with CD86, CD80 plays a major role in regulating the activation of T cells. CD80 is expressed by activated antigen presenting cells including B cells, macrophages, and dendritic cells. Activated T cells have also been reported to express CD80.

PREPARATION & STORAGE

This monoclonal antibody was purified from tissue culture supernatant via affinity chromatography. The purified antibody was conjugated under optimal conditions, with unreacted dye removed from the preparation. It is recommended to store the product undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.

APPLICATION NOTES

This antibody preparation has been pre-titrated and quality-tested for flow cytometry using an appropriate cell type. The antibody has been diluted for use at 5 µL per test, defined as the amount of antibody that will stain a cell sample in a final volume of approximately 100 µL. The number of cells within a sample should be determined empirically, but typically ranges between 1x10⁵ to 1x10⁸ cells.

REFERENCES

Linsley PS, Brady W, Urnes M, Grosmaire LS, Damle NK, Ledbetter JA. 1991. *J Exp Med.* Sep1;174(3):561-569. Freeman GJ, Gray GS, Gimmi CD, Lombard DB, Zhou LJ, White M, Fingerth JD, Gribben JG, Nadler LM. 1991. *J Exp Med.* Sep 1;174(3):625-631. Azuma M, Yssel H, Phillips JH, Spits H, Lanier LL. 1993. *J Exp Med.* Mar1;177(3):845-850. Linsley PS, Bradshaw J, Greene J, Peach R, Bennett KL, Mittler RS. 1996. *Immunity.* Jun;4(6):535-543.

Tonbo Biosciences tests all antibodies by flow cytometry. Citations are provided as a resource for additional applications that have not been validated by Tonbo Biosciences. Please choose the appropriate format for each application and consult Materials and Methods sections for additional details about the use of any product in these publications.

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