

Product Data Sheet

PE/Cy5 anti-human CD80

Catalog # / Size: 305209 / 25 tests
305210 / 100 tests

Clone: 2D10

Isotype: Mouse IgG1, κ

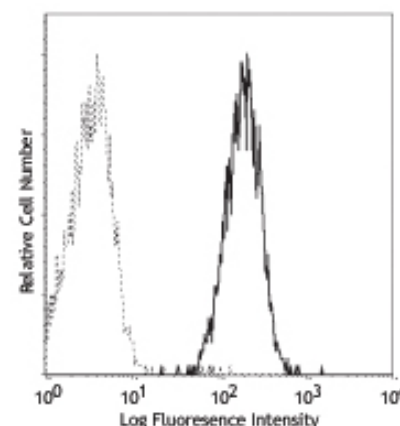
Workshop Number: VI CD80.1

Reactivity: Human, **Cross-Reactivity:** Rhesus

Preparation: The antibody was purified by affinity chromatography, and conjugated with PE/Cy5 under optimal conditions. The solution is free of unconjugated PE/Cy5 and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

Storage: The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



Daudi (human B Burkitt's lymphoma cell line) cells stained with 2D10 PE

Applications:

Applications: FC - Quality tested

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20 μ l to 5 μ l per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 μ l staining volume or per 100 μ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Read more at www.biolegend.com/testsize regarding the test size change.

Application Notes: Additional reported applications (for the relevant formats) include: *in vitro* blocking of T cell activation, immunohistochemical staining of acetone-fixed frozen tissue sections², immunoprecipitation, and Western blotting³. The LEAF™ purified antibody (Endotoxin <0.1 EU/ μ g, Azide-Free, 0.2 μ m filtered) is recommended for functional assays (Cat. No. 305212).

Cy3, Cy5, Cy5.5 and Cy7 are subject to proprietary rights of GE Healthcare Bio-Sciences Corp. and Carnegie Mellon University and made and sold under license from GE Healthcare Bio-Sciences Corp. Sale of this product is licensed for research use only.

Application References:

1. Kishimoto T, et al. Eds. 1997. Leucocyte Typing VI. Garland Publishing Inc. London.
2. Battifora M. 1998. *J. Clin. Endocr. Metab.* 83:4130. (IHC)
3. Van der Merwe PA, et al. 1997. *J. Exp. Med.* 185:3. (WB)
4. Jayakumar A, et al. 2008. *Infect. Immun.* 76:2138. PubMed
5. Schubert DA, et al. 2012. *J. Exp. Med.* 209:335. PubMed

Description: CD80, also known as B7-1, B7, and BB1, is a 60 kD single chain type I glycoprotein belonging to the immunoglobulin superfamily. CD80 is expressed on activated B and T cells, macrophages, and dendritic cells. CD80 binds to CD28 and CD152 (CTLA-4). Along with CD86, CD80 plays a critical role in regulation of T cell activation. The interaction of CD80 with CD28 provides a potent costimulatory signal for T cell activation through the CD3 complex, while its interaction with CTLA-4 provides an inhibitory signal for T cell activation.

Antigen References:

1. Freeman G, et al. 1991. *J. Exp. Med.* 174:625.
2. Linsley P, et al. 1996. *Immunity* 4:535.
3. Linsley P, et al. 1991. *J. Exp. Med.* 174:561.

Related Products:

Product	Clone	Application
PE/Cy5 anti-human CD28	CD28.2	FC
PE/Cy5 anti-human CD86	IT2.2	FC
PE/Cy5 Mouse IgG1, κ Isotype Ctrl	MOPC-21	FC, ICFC
Cell Staining Buffer		FC, ICC, ICFC
RBC Lysis Buffer (10X)		FC, ICFC
PE anti-human CD275 (B7-H2, ICOSL)	2D3	FC
Human TruStain FcX™ (Fc Receptor Blocking Solution)		FC, ICC, ICFC



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