

Biotin anti-human CD80

Catalog # / Size: 305203 / 25 µg
305204 / 100 µg

Clone: 2D10

Isotype: Mouse IgG1, κ

Workshop Number: VI CD80.1

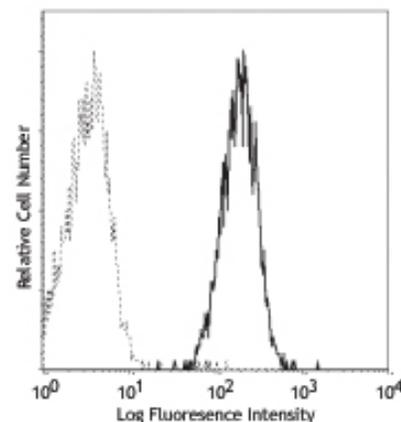
Reactivity: Human, **Cross-Reactivity:** Rhesus

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

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C. **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. For immunofluorescent staining, the suggested use of this reagent is ≤1.0 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

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/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 305212).

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 |
|-------------------|---|---------|---------------|
| | Biotin anti-human CD28 | CD28.2 | FC |
| | Biotin anti-human CD86 | IT2.2 | FC |
| | Biotin Mouse IgG1, κ Isotype Ctrl | MOPC-21 | FC, ICFC |
| | APC Streptavidin | | FC, ICFC |
| | APC/Cy7 Streptavidin | | FC, ICFC |
| | PE Streptavidin | | FC, ICFC |
| | PE/Cy5 Streptavidin | | FC, ICFC |
| | PE/Cy7 Streptavidin | | 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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