

**PerCP/Cy5.5 anti-human CD80**

**Catalog # / Size:** 2126160 / 100 tests  
2126155 / 25 tests

**Clone:** 2D10

**Isotype:** Mouse IgG1, κ

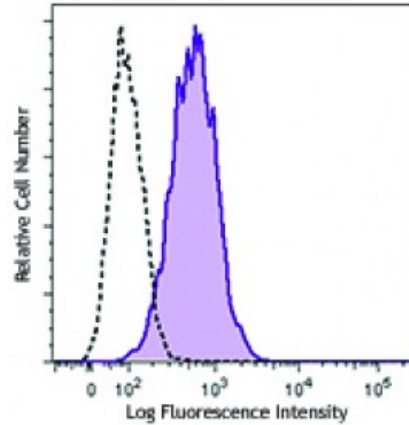
**Reactivity:** Human

**Preparation:** The antibody was purified by affinity chromatography and conjugated with PerCP/Cy5.5 under optimal conditions. The solution is free of unconjugated PerCP/Cy5.5 and unconjugated antibody.

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

**Workshop Number:** VI CD80.1

**Concentration:** Lot-specific



Human B-cell Burkitt's lymphoma cell line Raji was stained with CD80 (clone 2D10) PerCP/Cy5.5 (filled histogram) or mouse IgG1, κ PerCP/Cy5.5 isotype control (open histogram).

**Applications:**

**Applications:** Flow Cytometry

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

\* PerCP/Cy5.5 has a maximum absorption of 482 nm and a maximum emission of 690 nm.

**Application Notes:** Additional reported applications (for the relevant formats) include: *in vitro* blocking of T cell activation, immunohistochemical staining of acetone-fixed frozen tissue sections<sup>2</sup>, immunoprecipitation, and Western blotting<sup>3</sup>. 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](#)
  6. Wen T, *et al.* 2014. *J Immunol.* 192:5481. [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.