

Brilliant Violet 650™ anti-human CD80

Catalog # / Size: 2126135 / 25 tests

Clone: 2D10

Isotype: Mouse IgG1, κ

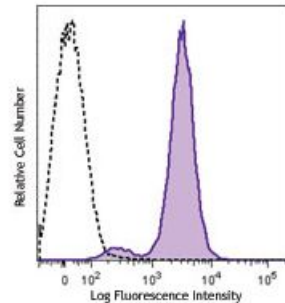
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 650™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 650™ and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 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) Brilliant Violet 650™ (filled histogram) or mouse IgG1, κ Brilliant Violet 650™ 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.

Brilliant Violet 650™ excites at 405 nm and emits at 645 nm. The bandpass filter 660/20 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel. Refer to your instrument manual or manufacturer for support. Brilliant Violet 650™ is a trademark of Sirigen Group Ltd.

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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](#)
 6. Skrnjug I, *et al.* 2014. *PLoS One.* 9:95728. [PubMed](#)
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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.