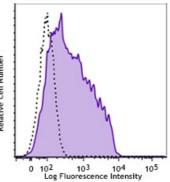
## Brilliant Violet 711<sup>™</sup> anti-mouse CD80

| Catalog # /<br>Size: | 1123715 / 50 μg   | I  |
|----------------------|---|--|
| Clone:               | 16-10A1   |  |
| lsotype:             | Hamster IgG   | . /  |
| Immunogen:           | CHO cell line transfected with mouse<br>B7 (CD80)   | Relative Cell Number   |
| <b>Reactivity:</b>   | Mouse, Other  | C57BL/6 mou<br>stimulated w<br>Cells were st<br>(clone 16-104<br>711 (filled hi<br>Armenian har<br>Violet™ 711 |
| Preparation:         | The antibody was purified by affinity<br>chromatography and conjugated with<br>Brilliant Violet 711 <sup>™</sup> under optimal<br>conditions. The solution is free of<br>unconjugated Brilliant Violet 711 <sup>™</sup><br>and unconjugated antibody. |  |
| Formulation:         | Phosphate-buffered solution, pH 7.2,<br>containing 0.09% sodium azide and<br>BSA (origin USA).  |  |
| Concentration:       | 0.2 mg/ml   |  |



C57BL/6 mouse splenocytes were stimulated with LPS for 3 days. Cells were stained with CD80 (clone 16-10A1) Brilliant Violet<sup>™</sup> 711 (filled histogram) or Armenian hamster IgG Brilliant Violet<sup>™</sup> 711 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  $\leq 0.5 \ \mu$ g per million cells in 100  $\mu$ l volume. It is recommended that the reagent be titrated for optimal performance for each application.

Brilliant Violet 711<sup>™</sup> excites at 405 nm and emits at 711 nm. The bandpass filter 710/50 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 711<sup>™</sup> is a trademark of Sirigen Group Ltd.

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Application Additional reported applications (for the relevant formats) include: immunoprecipitation<sup>2</sup>, *in vitro* and *in vivo* blocking of CTLA-4 Ig to CD80 by blocking costimulation of T cells by activated B cells<sup>2-4</sup>, and immunohistochemical staining of acetone-fixed frozen sections<sup>1,4</sup>.

| Application<br>References: | <ol> <li>Harlan DM, et al. 1994. P. Natl. Acad. Sci. USA 91:3137. (IHC)</li> <li>Razi-Wolf Z, et al. 1992. P. Natl. Acad. Sci. USA 89:4210. (Block, IP)</li> <li>Hathcock KS, et al. 1994. J. Exp. Med. 180:631. (Block)</li> <li>Herold KC, et al. 1997. J. Immunol. 158:984. (Block, IHC)</li> <li>Ma XT, et al. 2006. Cancer Res. 66:1169.</li> <li>Andoniou CE, et al. 2005. Nature Immunology 6:1011. (FC)</li> <li>Lawson BR, et al. 2007. J. Immunol. 178:5366.</li> <li>Turnquist HR, et al. 2007. J. Immunol. 178:7018.</li> <li>Misra RS, et al. 2010. J. Exp Med. 207:1775. PubMed</li> <li>del Rio ML, et al. 2011. Transpl. Int. 24:501. (FC) PubMed</li> <li>Philipsen L, et al. 2013. Mol Cell Proteomics. 12:2551. PubMed</li> </ol> |
|----------------------------|--|
| Description:               | CD80 is a 60 kD highly glycosylated protein. It is a member of the Ig<br>superfamily and is also known as B7-1, B7, and Ly-53. CD80 is constitutively<br>expressed on dendritic cells and monocytes/macrophages, and inducibly<br>expressed on activated B and T cells. The ligation of CD28 on T cells with   |

T cells.

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**References:** 

CD80 and CD86 (B7-2) on antigen presenting cells (such as dendritic cells, macrophages, and B cells) elicits co-stimulation of T cells resulting in enhanced cell activation, proliferation, and cytokine production. CD80 appears to be expressed later in the immune response than CD86. CD80 can also bind to CD152, also known as CTLA-4, to deliver an inhibitory signal to

1. Barclay AN, et al. 1997. The Leukocyte Antigen FactsBook Academic

2. Linsley PS, et al. 1991. J. Exp. Med. 174:561.

3. Salomon B, et al. 2001. Annu. Rev. Immunol. 19:225.