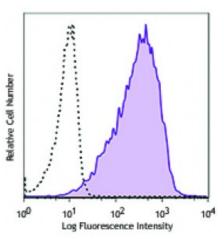
Product Data Sheet

Biotin anti-mouse CD80

Catalog # / Size:	1123520 / 500 μg 1123515 / 50 μg
Clone:	16-10A1
Isotype:	Hamster IgG
Immunogen:	CHO cell line transfected with mouse B7 (CD80)
Reactivity:	Other
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



LPS-stimulated (3 days) BALB/c splenocytes were stained with biotinylated CD80 (clone 16-10A1, filled histogram) or Armenian hamster IgG (HTK888) isotype control (open histrogram), followed by Sav-PE.

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 ≤ 0.25 microg per 10^6 cells in 100 microL 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: immunoprecipitation2, <i>in vitro</i> and <i>in vivo</i> blocking of CTLA-4 Ig to CD80 by blocking costimulation of T cells by activated B cells ²⁻⁴ , and immunohistochemical staining of acetone-fixed frozen sections ^{1,4} . The LEAF [™] purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 104710).
Application References:	 Harlan DM, <i>et al.</i> 1994. <i>P. Natl. Acad. Sci. USA</i> 91:3137. (IHC) Razi-Wolf Z, <i>et al.</i> 1992. <i>P. Natl. Acad. Sci. USA</i> 89:4210. (Block, IP) Hathcock KS, <i>et al.</i> 1994. <i>J. Exp. Med.</i> 180:631. (Block) Herold KC, <i>et al.</i> 1997. <i>J. Immunol.</i> 158:984. (Block, IHC) Ma XT, <i>et al.</i> 2006. <i>Cancer Res.</i> 66:1169. Andoniou CE, <i>et al.</i> 2005. <i>Nature Immunology</i> 6:1011. (FC) Lawson BR, <i>et al.</i> 2007. <i>J. Immunol.</i> 178:5366. Turnquist HR, et al. 2007. <i>J. Immunol.</i> 178:7018. Misra RS, <i>et al.</i> 2010. <i>J. Exp. Med.</i> 207:1775. PubMed del Rio ML, <i>et al.</i> 2013. <i>J Immunol Methods.</i> 391:103. PubMed

Description: CD80 is a 60 kD highly glycosylated protein. It is a member of the Ig superfamily and is also known as B7-1, B7, and Ly-53. CD80 is constitutively expressed on dendritic cells and monocytes/macrophages, and inducibly expressed on

For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products. Sony Biotechnology Inc. 1730 North First Street, San Jose, CA 95112 www.sonybiotechnology.com activated B and T cells. The ligation of CD28 on T cells with 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 T cells.

Antigen
1. Barclay AN, *et al.* 1997. The Leukocyte Antigen FactsBook Academic Press.
2. Linsley PS, *et al.* 1991. *J. Exp. Med.* 174:561.
3. Salomon B, *et al.* 2001. *Annu. Rev. Immunol.* 19:225.