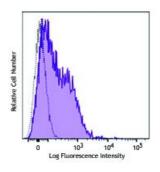
APC/Fire[™] 750 anti-mouse CD80

Catalog # / Size:		
Clone:	16-10A1	
lsotype:	Hamster IgG	
Immunogen:	CHO cell line transfected with mouse B7 (CD80)	
Reactivity:	Mouse, Other	
Preparation:	The antibody was purified by affinity chromatography and conjugated with APC/Fire™ 750 under optimal conditions.	
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).	L s
Concentration:	0.2 mg/ml	7



LPS-stimulated (3 days) C57BL/6 splenocytes were stained with CD80 (clone 16-10A1) APC/Fire[™] 750 (filled histogram) or Armenian hamster IgG APC/Fire[™] 750 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 μ l per million cells or 5 μ l per 100 μ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
	* APC/Fire™ 750 has a maximum excitation of 650 nm and a maximum emission of 787 nm.
Application Notes:	Additional reported applications (for the relevant formats) include: immunoprecipitation ² , <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 Ultra-LEAF TM purified antibody (Endotoxin < 0.01 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. Nos. 104747-104752).
Application References:	 Harlan DM, et al. 1994. P. Natl. Acad. Sci. USA 91:3137. (IHC) Razi-Wolf Z, et al. 1992. P. Natl. Acad. Sci. USA 89:4210. (Block, IP) Hathcock KS, et al. 1994. J. Exp. Med. 180:631. (Block) Herold KC, et al. 1997. J. Immunol. 158:984. (Block, IHC) Ma XT, et al. 2006. Cancer Res. 66:1169. Andoniou CE, et al. 2007. J. Immunol. 178:5366. Turnquist HR, et al. 2007. J. Immunol. 178:7018. Misra RS, et al. 2011. Transpl. Int. 24:501. (FC) PubMed del Rio ML, et al. 2013. Mol Cell Proteomics. 12:2551. PubMed

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 **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 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 **References:** Press.

- 2. Linsley PS, et al. 1991. J. Exp. Med. 174:561.
- 3. Salomon B, et al. 2001. Annu. Rev. Immunol. 19:225.