Alexa Fluor® 488 anti-mouse CD86

Catalog # / Size: 1125085 / 25 µg

1125090 / 100 µg

Clone:

Isotype: Rat IgG2a, ĸ

LPS-activated CBA/Ca mouse splenic B Immunogen:

cells

Reactivity: Mouse

Preparation: The antibody was purified by affinity

chromatography, and conjugated with

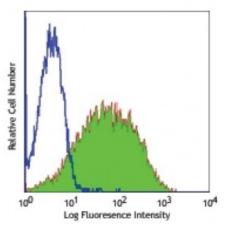
Alexa Fluor® 488 under optimal

conditions.

Phosphate-buffered solution, pH 7.2, Formulation:

containing 0.09% sodium azide.

Concentration: 0.5



LPS-stimulated (3 days) C57BL/6 mouse splenocytes stained with GL-

1 Alexa Fluor® 488

Applications:

Applications: Immunofluorescence

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 ≤2.0 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.

* Alexa Fluor® 488 has a maximum emission of 519 nm when it is excited at 488

Application Notes:

The GL-1 antibody can block the mixed lymphocyte reaction in vitro and has been shown to inhibit the priming of cytotoxic T lymphocytes in vivo (along with antibodies against B7-1). Additional reported applications (for the relevant formats) include: immunoprecipitation1, immunohistochemical staining of acetone-fixed frozen sections^{2,6}, immunofluorescence microscopy, and *in vivo*

and *in vitro* blocking of T cell responses¹⁻⁶. GL-1 is not suitable for immunohistochemical staining of formalin-fixed paraffin sections. The LEAF™ purified antibody (Endotoxin <0.1 EU/μg, Azide-Free, 0.2 μm filtered) is

recommended for functional assays (Cat. No. 105010).

Application References: 1. Hathcock KS, et al. 1993. Science 262:905. (Block, IP)

2. Inaba KM, et al. 1994. J. Exp. Med. 180:1849. (Block, IHC)

3. Hathcock KS, et al. 1994. J. Exp. Med. 180:631. (Block)

4. Krummel MF, et al. 1995. J. Exp. Med. 182:459. (Block)

5. Liu Y, et al. 1997. J. Exp. Med. 185:251. (Block)

6. Herold KC, et al. 1997. J. Immunol. 158:984. (Block, IHC)

7. Shih FF, et al. 2006. J. Immunol. 176:3438. (FC)

8. Lawson BR, et al. 2007. J. Immunol. 178:5366.

9. Turnquist HR, et al. 2007. J. Immunol. 178:7018.

10. Klinger MB, et al. 2007. Am. J. Physiol. Requl. Integr. Comp. Physiol. 293:R677.

PubMed

11. Philipsen L, et al. 2013. Mol Cell Proteomics. 12:2551. PubMed

Description:

CD86 is an 80 kD immunoglobulin superfamily member also known as B7-2, B70, and Ly-58. CD86 is expressed on activated B and T cells, macrophages, dendritic cells, and astrocytes. CD86, along with CD80, is a ligand of CD28 and CD152 (CTLA-4). CD86 is expressed earlier in the immune response than CD80. CD86 has also been shown to be involved in immunoglobulin class-switching and triggering of NK cell-mediated cytotoxicity. CD86 binds to CD28 to transduce costimulatory signals for T cell activation, proliferation, and cytokine production. CD86 can also bind to CD152, also known as CTLA-4, to deliver an inhibitory signal to T cells.

Antigen References:

- 1. Barclay A, et al. 1997. The Leukocyte Antigen FactsBook Academic Press.
- 2. Hathcock KS, et al. 1993. Science 262:905.
- 3. Freeman GJ, et al. 1993. Science 262:907.
- 4. Carreno BM, et a