

## Alexa Fluor® 647 anti-rat CD86

**Catalog # / Size:** 200314 / 100 µg

**Clone:** 24F

**Isotype:** Mouse IgG1, κ

**Immunogen:** HTLV-1-transformed Lewis-S1 rat T cell line

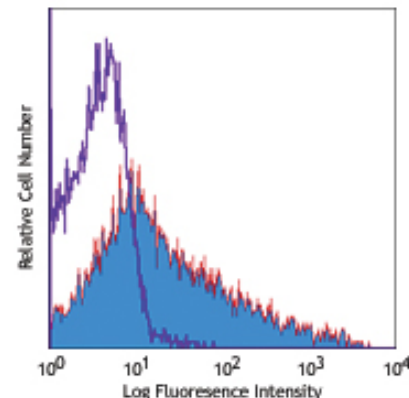
**Reactivity:** Rat

**Preparation:** The antibody was purified by affinity chromatography, and conjugated with Alexa Fluor® 647 under optimal conditions. The solution is free of unconjugated Alexa Fluor® 647.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

**Concentration:** 0.5 mg/ml

**Storage:** The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



ConA-stimulated (3 days) LOU rat splenocytes stained with 24F Alexa Fluor® 647

## Applications:

**Applications:** FC - *Quality tested*  
IF, IHC - *Reported in the literature*

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤0.25 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

\* Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633 nm / 635 nm.

\*\* Alexa Fluor® 647 is a registered trademark of Molecular Probes, Inc. Alexa Fluor® 647 dye antibody conjugates are sold under license from Molecular Probes, Inc. for research use only, except for use in combination with microarrays and high content screening, and are covered by pending and issued patents.

**Application Notes:** Additional reported applications (for the relevant formats) include: immunoprecipitation<sup>1-3</sup>, blocking of costimulation of T cells<sup>1-3</sup>, and immunohistochemical staining of acetone-fixed frozen sections<sup>3</sup>. The LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 200310).

**Application References:**

1. Maeda K, *et al.* 1997. *Int. Immunol.* 9:993. (IP, Block)
2. Bluestone JA. 1995. *Immunity* 2:555. (IP, Block)
3. Damoiseaux JG, *et al.* 1998. *J. Leuk. Biol.* 64:803. (IP, Block, IHC)

**Description:** CD86 is an 80 kD member of the immunoglobulin superfamily also known as B70 or B7-2. It is expressed on antigen presenting cells and activated T and B cells. CD86 is a ligand for CD28 and CD152 (CTLA-4). It is one of the accessory molecules that plays an important role in T cell-APC cell costimulatory interactions. The 24F antibody can block the co-stimulatory activity of CD86.

**Antigen References:**

1. Barclay AN, *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 al.* 2002. *Ann. Rev. Immunol.* 20:29.

Related Products:	Product	Clone	Application
	Cell Staining Buffer		FC, ICC, ICFC
	Alexa Fluor® 647 Mouse IgG1, κ Isotype Ctrl (FC)	MOPC-21	FC, IF



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