

Alexa Fluor® 647 anti-mouse Tim-4

Catalog # / Size: 129907 / 25 µg

Clone: F31-5G3

Isotype: Rat IgG1 κ

Immunogen: Mouse TIM4-Ig fusion protein

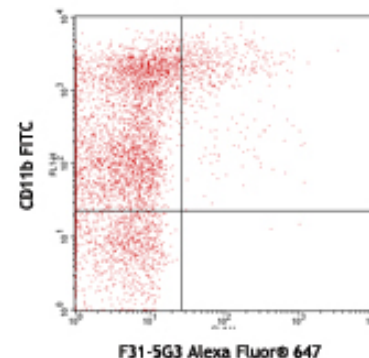
Reactivity: Mouse

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.**



Balb/c mouse peritoneal macrophages stained with F31-5G3 Alexa Fluor® 647 and CD11b (M1/70) FITC

Applications:

Applications: FC - Quality tested

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 References: 1. Rodriguez-Manzanet R, *et al.* 2008. *J. Immunol.* 180:4706

Description: TIM4 is a transmembrane protein known as T cell immunoglobulin and mucin domain containing protein-4. It is expressed on antigen-presenting cells and not on T cells. TIM4 binds to TIM1 to promote T cell proliferation by enhancing cell division and reducing apoptosis. TIM4 bind to phosphatidylserine through its FG-CC' binding cleft in the N-terminal IgV domain to facilitate the clearance of apoptotic cells or bodies.

Antigen References: 1. Kuchroo VK, *et al.* 2008. *Nat. Rev. Immunol.* 8:577
 2. Miyanishi M *et al.* 2007. *Nature* 450:435
 3. Rodriguez-Manzanet R *et al.* 2008. *J. Immunol.* 180:4706

Related Products:	Product	Clone	Application
	Alexa Fluor® 647 Rat IgG1, κ Isotype Ctrl	RTK2071	FC, ICFC
	Cell Staining Buffer		FC, ICC, ICFC
	RBC Lysis Buffer (10X)		FC, ICFC
	TruStain fcX™ (anti-mouse CD16/32)	93	FC



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