

## Alexa Fluor® 647 anti-mouse CD47

**Catalog # / Size:** 127509 / 25 µg  
127510 / 100 µg

**Clone:** miap301

**Isotype:** Rat IgG2a, κ

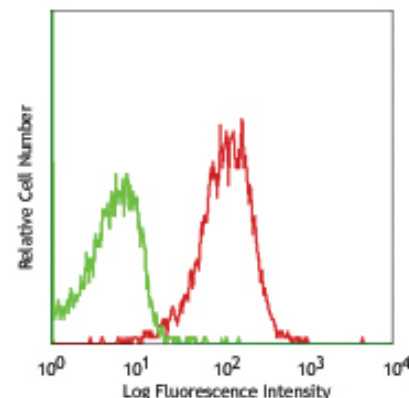
**Reactivity:** Mouse, **Cross-Reactivity:** Not cross-reactive with human CD47

**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 splenocytes stained with Miap301 Alexa Fluor® 647

## 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 ≤1.0 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:** Wang H, *et al.* 2007. *P. Natl. Acad. Sci. USA* 104:13744

**Description:** CD47, also known as Integrin-Associated Protein (IAP), is a membrane protein of about 50 kd with an IgV-like extracellular domain, a five membrane-spanning segment and a short terminal cytoplasmic region. It is widely expressed on many cell types and often associated with beta 3 integrins. The significance of this molecule is recently drawing increasing attention. It has been reported that CD47 functions as a self marker. Red cells lacking CD47 were rapidly cleared from the bloodstream by splenic macrophages. By binding to SIRPalpha, CD47 controls hemostatic innate immune functions, such as phagocytosis and cell trafficking.

**Antigen References:**

1. Brown E *et al.* 1990. *J Cell Biol* 111:2785
2. Mawby WJ *et al.* 1994. *Biochem J* 304:525
3. Gao AG *et al.* 1996. *J. Biol. Chem.* 271:21
4. Oldenburg PA *et al.* 2000. 288:2051
5. van Beck EM *et al.* 2005. *J. Immunol.* 175:7781

### Related Products:

**Product**  
Alexa Fluor® 647 Rat IgG2a, κ Isotype Ctrl  
Cell Staining Buffer  
RBC Lysis Buffer (10X)  
TruStain fcX™ (anti-mouse CD16/32)

**Clone**  
RTK2758

93

**Application**  
FC, ICFC  
FC, ICC, ICFC  
FC, ICFC  
FC



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