

## FITC anti-mouse CD47

**Catalog # / Size:** 127503 / 50 µg  
127504 / 500 µg

**Clone:** miap301

**Isotype:** Rat IgG2a, κ

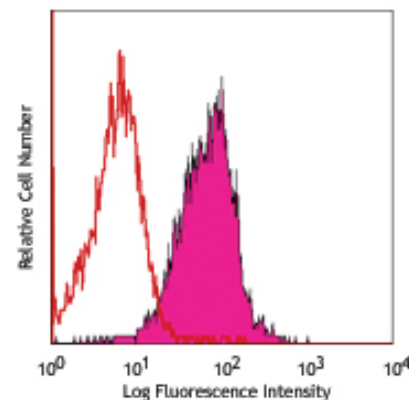
**Reactivity:** Mouse, **Cross-Reactivity:** Not cross-reactive with human CD47

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

**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 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  $\leq 1.0 \mu\text{g}$  per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

**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	Clone	Application
	FITC Rat IgG2a, κ Isotype Ctrl	RTK2758	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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