

# Product Data Sheet

## Biotin anti-mouse CD47

**Catalog # / Size:** 127505 / 50 µg  
127506 / 500 µg

**Clone:** miap301

**Isotype:** Rat IgG2a, κ

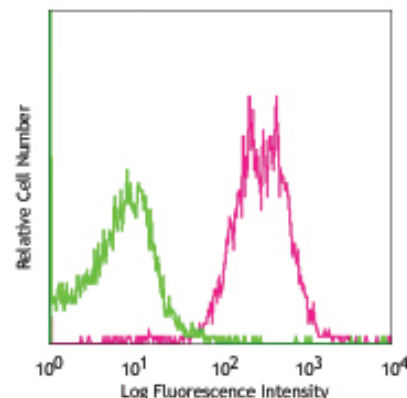
**Reactivity:** Mouse, **Cross-Reactivity:** Not cross-reactive with human CD47

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

**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. **Do not freeze.**



BALB/c splenocytes stained with Miap301 biotin, followed by Sav-PE

## 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 10<sup>6</sup> 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. Oldenborg PA *et al.* 2000. 288:2051
5. van Beck EM *et al.* 2005. *J. Immunol.* 175:7781

### Related Products:

**Product**  
 Biotin 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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