

Purified anti-mouse CD47

Catalog # / Size: 127501 / 50 µg
127502 / 500 µg

Clone: miap301

Isotype: Rat IgG2a, κ

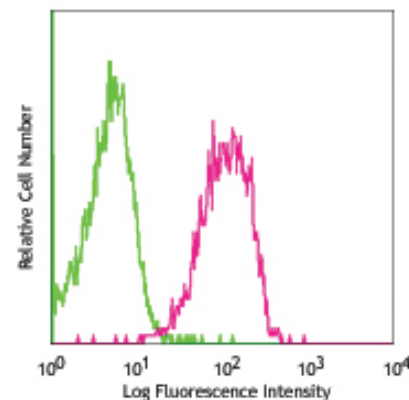
Reactivity: Mouse, **Cross-Reactivity:** Not cross-reactive with human CD47

Preparation: The antibody was purified by affinity chromatography.

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.



C57BL/6 splenocytes stained with miap301 purified, followed by anti-rat IgG 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 $\leq 0.25 \mu\text{g}$ per 10^6 cells in $100 \mu\text{l}$ volume or $100 \mu\text{l}$ of whole blood. 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
Purified Rat IgG2a, κ Isotype Ctrl	RTK2758	FC, ICC, IF, IHC, IP, WB
Cell Staining Buffer		FC, ICC, ICFC
RBC Lysis Buffer (10X)		FC, ICFC



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