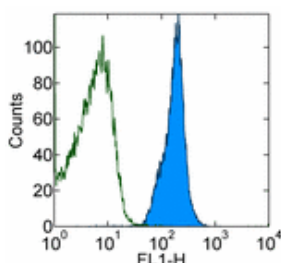


## Anti-Mouse CD47 FITC

Catalog Number: 11-0471

Also Known As: Integrin associated protein, IAP

RUO: For Research Use Only



Staining of BALB/c splenocytes with 0.5 µg of Rat IgG2a κ Isotype Control FITC (cat. 11-4321) (open histogram) or 0.5 µg of Anti-Mouse CD47 FITC (filled histogram). Total viable cells were used for analysis.

### Product Information

Contents: Anti-Mouse CD47 FITC


**REF** Catalog Number: 11-0471

Clone: miap301

Concentration: 0.5 mg/ml


Host/Isotype: Rat IgG2a, κ

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

 Temperature Limitation: Store at 2-8°C. Do not freeze. Light sensitive material.

**LOT** Batch Code: Refer to Vial

 Use By: Refer to Vial

 Caution, contains Azide

### Description

The monoclonal antibody miap301 reacts to CD47 also known as integrin-associated protein (IAP), and neuophilin. CD47 is a glycosylated five transmembrane protein with a small cytoplasmic domain. CD47 is involved in adhesion through interactions with SIRP (signal regulator protein) and is non-covalently associated with β3 integrins CD51/CD61, CD41/CD61. It is also known to be the receptor for thrombospondin. T cell expression of CD47 can mediate activation or apoptosis (in the presence of high levels of thrombospondin). Expression is found in the majority of hematopoietic cells including T and B cells, monocytes, platelets and erythrocytes (as part of the Rh complex). Expression is also found in non-hematopoietic cells.

No crossreactivity is seen against human CD47.

### Applications Reported

This miap301 antibody has been reported for use in flow cytometric analysis.

### Applications Tested

This miap301 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 1 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

### References

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Babic I, Schallhorn A, Lindberg FP, Jirik FR. SHPS-1 induces aggregation of Ba/F3 pro-B cells via an interaction with CD47. *J Immunol*. 2000 Apr 1;164(7):3652-8. (miap301, FA (blocking cell aggregation in vitro), PubMed)

Jiang P, Lagenaur CF, Narayanan V. Integrin-associated protein is a ligand for the P84 neural adhesion molecule. *J Biol Chem*. 1999 Jan 8;274(2):559-62.

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Chang HP, Lindberg FP, et al. 1999. Impaired memory retention and decreased long-term potentiation in integrin-associated protein-deficient

mice. (miap301, WB, PubMed)

#### Related Products

11-4321 Rat IgG2a K Isotype Control FITC

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