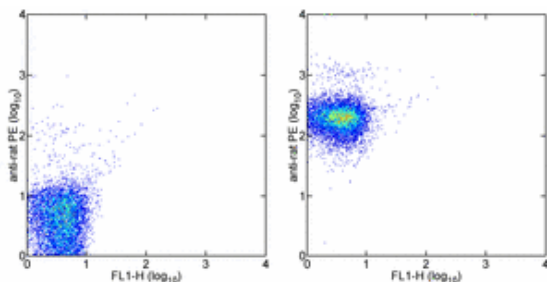


Anti-Mouse CD47 Purified

Catalog Number: 14-0471

Also Known As: Integrin associated protein, IAP

RUO: For Research Use Only



Staining of BALB/c splenocytes with 0.25 µg of Rat IgG2a Isotype Control Purified (cat. 14-4321) (left) or 0.25 µg of Anti-Mouse CD47 Purified (right) followed by Anti-Rat IgG PE (cat. 12-4822). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse CD47 Purified


REF Catalog Number: 14-0471

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.

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 neurophilin. 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, immunoprecipitation, immunoblotting (WB) under nonreducing conditions, and immunohistology staining of frozen tissue sections.

Applications Tested

This miap30 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.5 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 10⁵ to 10⁸ 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.

Mouro-Chanteloup I, Delaunay J, et al. 2003. Evidence that the red cell skeleton protein 4.2 interacts with the Rh membrane complex member CD47. *Blood* 101(1):338-44. (miap301, WB, PubMed)

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

11-4317 Streptavidin FITC

11-4811 Anti-Rat IgG FITC

12-4317 Streptavidin PE

13-4813 Anti-Rat IgG Biotin (Polyclonal)

14-4321 Rat IgG2a K Isotype Control Purified

17-4317 Streptavidin APC

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