

CD47 Monoclonal Antibody (miap301), APC, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), APC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	miap301
Conjugate	APC
Excitation/Emission Max	651/660 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_1724083

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	1 µg/test	6 Publications

Product Specific Information

Description: The monoclonal antibody miap301 reacts to CD47 also known as integrin-associated protein (IAP), and neuropilin. 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 3 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.

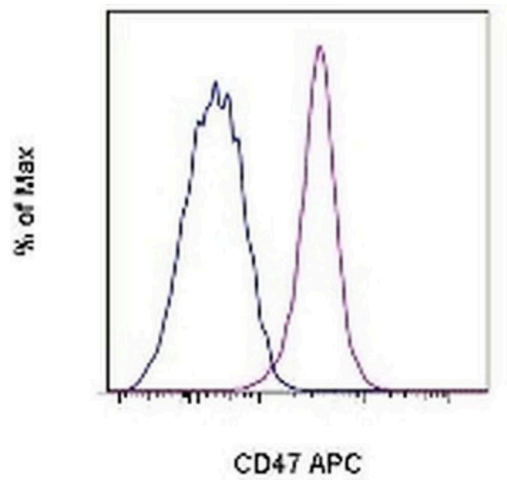
Applications Reported: This miap301 antibody has been reported for use in flow cytometric analysis.

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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Excitation: 633-647 nm; Emission: 660 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD47 Monoclonal Antibody (miap301), APC, eBioscience™



CD47 Antibody (17-0471-82) in Flow
Staining of C57BL/6 splenocytes with 0.5 µg of Rat IgG2a K Isotype Control APC (Product # 17-4321-81) (blue histogram) or 0.5 µg of Anti-Mouse CD47 APC (purple histogram). Total viable cells were used for analysis.

6 References

Flow Cytometry (6)

iScience	Year 2021
SPARC regulation of PMN clearance protects from pristane-induced lupus and rheumatoid arthritis.	Species Mouse
"17-0471-82 was used in Flow Cytometry to investigate the role of secreted protein acidic and rich in cysteine in autoimmunity using the pristane-induced model of lupus that, in mice, mimics human systemic lupus erythematosus (SLE)."	
Authors: Sangaletti S,Botti L,Gulino A,Lecis D,Bassani B,Portararo P,Milani M,Cancila V,De Cecco L,Dugo M,Tripodo C, Colombo MP	
Cell death and differentiation	Year 2020
Resolvin D1 promotes the targeting and clearance of necroptotic cells.	Species Mouse
"17-0471 was used in Flow cytometry/Cell sorting to investigate inefficient clearance and accumulation of necroptotic cells in atherosclerotic plaques."	
Authors: Gerlach BD,Marinello M,Heinz J,Rymut N,Sansbury BE,Riley CO,Sadhu S,Hosseini Z,Kojima Y,Tang DD, Leeper NJ,Spite M,Barroso M,Rayner KJ,Fredman G	

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