

CD47 Monoclonal Antibody (B6H12), APC, eBioscience™

| Product Details | |
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| Size | 100 Tests |
| Species Reactivity | Human |
| Published Species | Mouse, Human |
| Host/Isotype | Mouse / IgG1, kappa |
| Recommended Isotype Control | Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), APC, eBioscience™ |
| Class | Monoclonal |
| Type | Antibody |
| Clone | B6H12 |
| Conjugate | APC |
| Excitation/Emission Max | 651/660 nm |
| Form | Liquid |
| Concentration | 5 µL/Test |
| Purification | Affinity chromatography |
| Storage buffer | PBS, pH 7.2, with 0.2% BSA |
| Contains | 0.09% sodium azide |
| Storage conditions | 4° C, store in dark, DO NOT FREEZE! |
| RRID | AB_1963586 |

| Applications | Tested Dilution | Publications |
|-----------------------------|------------------|-----------------|
| Flow Cytometry (Flow) | 5 µL (1 µg)/test | 13 Publications |
| Miscellaneous PubMed (Misc) | - | 1 Publication |

Product Specific Information

Description: The monoclonal antibody B6H12 reacts to CD47 also known as integrin-associated protein (IAP), and neurophilin. CD47 is a glycosylated five transmembrane protein with a small alternatively spliced cytoplasmic domain. CD47 is involved in adhesion through interactions with SIRP (signal regulator protein) and is non-covalently associated with beta3 integrins CD51/CD61 and CD41/CD61. Furthermore this interaction can mediate bi-directional signaling to modify neural synaptic activity and regulate the phagocytic activities of macrophages. CD47 is the receptor for thrombospondin. T cell expression of CD47 can mediate activation or apoptosis (in the presence of high levels of thrombospondin). Recently stimulation of CD47 by monoclonal antibody has been shown to induce CD4+CD25- suppressive activity also increasing expression of Foxp3. 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.

This antibody has been reported to have neutralizing activity.

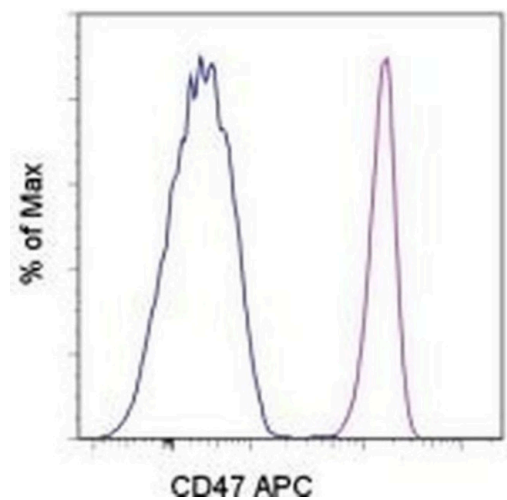
Applications Reported: This B6H12 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This B6H12 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (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.

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

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD47 Monoclonal Antibody (B6H12), APC, eBioscience™



CD47 Antibody (17-0479-42) in Flow
Staining of normal human peripheral blood cells with Mouse IgG1 kappa Isotype Control APC (Product # 17-4714-81) (blue histogram) or Anti-Human CD47 APC (purple histogram). Cells in the lymphocyte gate were used for analysis.

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Flow Cytometry (13)

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| Pharmaceuticals (Basel, Switzerland) Altered Membrane Expression and Function of CD11b Play a Role in the Immunosuppressive Effects of Morphine on Macrophages at the Nanomolar Level. "Published figure using CD47 monoclonal antibody (Product # 17-0479-42) in Flow Cytometry" Authors: Yu PC,Hao CY,Fan YZ,Liu D,Qiao YF,Yao JB,Li CZ,Yu Y | Year 2023 |
| Oncoimmunology Schweinfurthin induces ICD without ER stress and caspase activation. "Published figure using CD47 monoclonal antibody (Product # 17-0479-42) in Flow Cytometry" Authors: Zhang R,Neighbors JD,Schell TD,Hohl RJ | Year 2022 |

[View more Flow references on thermofisher.com](#)

Miscellaneous PubMed (1)

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| Theranostics Co-delivery of phagocytosis checkpoint and STING agonist by a Trojan horse nanocapsule for orthotopic glioma immunotherapy. "17-0479-42 was used in Preparation of nanocapsules to develop a smart "Trojan horse" BBB-permeable nanocapsule termed "NAcp@CD47" to deliver anti-CD47 antibodies and stimulator of interferon genes (STING) agonists into GBM tissues in a stealth-like manner to reshaped the immune microenvironment by switching the phenotype of microglia and macrophages." Authors: Zhou Y,Guo Y,Chen L,Zhang X,Wu W,Yang Z,Li X,Wang Y,Hu Z,Wang Z | Year 2022 Species Mouse |
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More applications with references on thermofisher.com

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