

CD47 Monoclonal Antibody (B6H12), FITC, eBioscience™

Product Details	
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), FITC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	B6H12
Conjugate	FITC
Excitation/Emission Max	498/517 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_2043842

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	2 Publications
Immunohistochemistry (Paraffin) (IHC (P))	Assay-Dependent	1 Publication
Immunocytochemistry (ICC/IF)	-	2 Publications
Flow Cytometry (Flow)	5 µL (1 µg)/test	12 Publications
Inhibition Assays (IA)	-	2 Publications

Product Specific Information

Description: The monoclonal antibody B6H12 reacts to CD47 also known as integrin-associated protein (IAP), and neuropilin. 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.

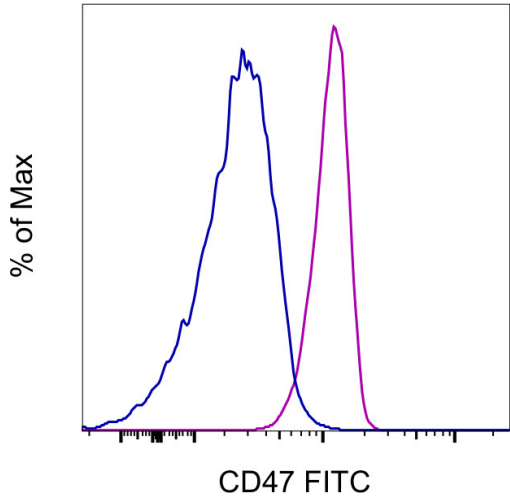
Applications Reported: This B6H12 antibody has been reported for use in flow cytometric analysis, and immunohistochemical staining of formalin-fixed paraffin embedded tissue sections.

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 μ L (1 μ g) per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10^5 to 10^8 cells /test.

Excitation: 488 nm; Emission: 520 nm; Laser: Blue Laser.

Filtration: 0.2 μ m post-manufacturing filtered.

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



CD47 Antibody (11-0479-42) in Flow
Normal human peripheral blood cells were stained with Mouse IgG1 kappa Isotype Control, FITC (Product # 11-4714-82) (blue histogram) or CD47 Monoclonal Antibody, FITC (purple histogram). Cells in the lymphocyte gate were used for analysis.

[View more figures on thermofisher.com](https://thermofisher.com)

Immunohistochemistry (2)

Nature communications Therapeutic modulation of phagocytosis in glioblastoma can activate both innate and adaptive antitumour immunity. "Published figure using CD47 monoclonal antibody (Product # 11-0479-42) in Immunohistochemistry" Authors: von Roemeling CA,Wang Y,Qie Y,Yuan H,Zhao H,Liu X,Yang Z,Yang M,Deng W,Bruno KA,Chan CK,Lee AS,Rosenfeld SS,Yun K,Johnson AJ,Mitchell DA,Jiang W,Kim BYS	Year 2020
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Oncotarget CD47 promotes ovarian cancer progression by inhibiting macrophage phagocytosis. "Published figure using CD47 monoclonal antibody (Product # 11-0479-42) in Flow Cytometry" Authors: Liu R,Wei H,Gao P,Yu H,Wang K,Fu Z,Ju B,Zhao M,Dong S,Li Z,He Y,Huang Y,Yao Z	Year 2017 Species Human
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Immunohistochemistry (Paraffin) (1)

International journal of molecular sciences CD24: A Marker for an Extended Expansion Potential of Urothelial Cancer Cell Organoids In Vitro? "Published figure using CD47 monoclonal antibody (Product # 11-0479-42) in Immunohistochemistry (Paraffin)" Authors: Geng R,Harland N,Montes-Mojarro IA,Fend F,Aicher WK,Stenzl A,Amend B	Year 2022
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Immunocytochemistry (2)

JCI insight CD47 prevents the elimination of diseased fibroblasts in scleroderma. "Published figure using CD47 monoclonal antibody (Product # 11-0479-42) in Immunocytochemistry" Authors: Lerbs T,Cui L,King ME,Chai T,Muscat C,Chung L,Brown R,Rieger K,Shibata T,Wernig G	Year 2020
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More applications with references on thermofisher.com

- Flow (12)
- IA (2)

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