

CD47 Monoclonal Antibody (B6H12), eBioscience™

Product Details

Size	100 µg
Species Reactivity	Human
Published Species	Human, Mouse
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	B6H12
Conjugate	Unconjugated
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_837143

Applications	Tested Dilution	Publications
Western Blot (WB)	Assay-Dependent	1 Publication
Immunohistochemistry (IHC)	-	3 Publications
Immunohistochemistry (Paraffin) (IHC (P))	Assay-Dependent	-
Immunocytochemistry (ICC/IF)	-	2 Publications
Flow Cytometry (Flow)	1 µg/test	14 Publications
Immunoprecipitation (IP)	Assay-Dependent	-
Neutralization (Neu)	-	2 Publications
Inhibition Assays (IA)	-	2 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 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, immunoprecipitation,

western blotting, and immunohistochemical staining of formalin-fixed paraffin embedded tissue sections.

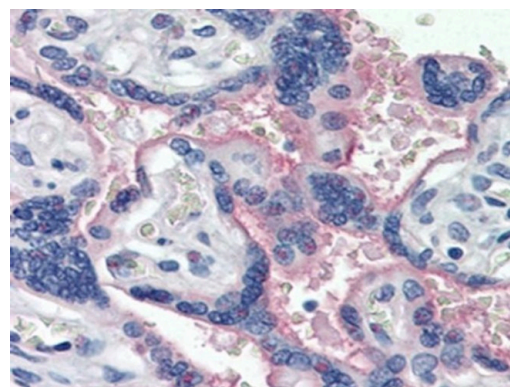
Applications Tested: This B6H12 antibody has been tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at less than or equal to 1 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. The B6H12 antibody has been tested by immunohistochemistry of formalin-fixed paraffin embedded human tissue using low pH antigen retrieval and can be used at less than or equal to 40 µg/mL. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Purity: Greater than 90%, as determined by SDS-PAGE.

Aggregation: Less than 10%, as determined by HPLC.

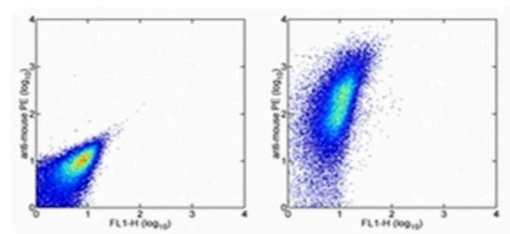
Filtration: 0.2 µm post-manufacturing filtered.

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



CD47 Antibody (14-0479-82) in IHC (P)

Immunohistochemistry of formalin-fixed paraffin embedded human placenta stained with 40 µg/mL Anti-Human CD47 Purified followed by Anti-Mouse IgG Biotin, Streptavidin Alkaline Phosphatase, and Fast Red. Nuclei are counterstained with hematoxylin.



CD47 Antibody (14-0479-82) in Flow

Staining of normal human peripheral blood cells with 0.5 µg of Mouse IgG1 kappa Isotype Control Purified (Product # 14-4714-82) (left) or 0.5 µg of Anti-Human CD47 Purified (center) followed by F(ab')₂ Anti-Mouse IgG PE (Product # 12-4012). Lymphocytes were used for analysis.

View more figures on thermofisher.cn

Western Blot (1)

Nature Nanoparticle biointerfacing by platelet membrane cloaking. "14-0479 was used in Flow cytometry/Cell sorting to explore the use of the preparation of polymeric nanoparticles enclosed in the plasma membrane of human platelets." Authors: Hu CM,Fang RH,Wang KC,Luk BT,Thamphiwatana S,Dehaini D,Nguyen P,Angsantikul P,Wen CH,Kroll AV, Carpenter C,Ramesh M,Qu V,Patel SH,Zhu J,Shi W,Hofman FM,Chen TC,Gao W,Zhang K,Chien S,Zhang L	Year 2015 Species Human
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Immunohistochemistry (3)

JCI insight CD47 prevents the elimination of diseased fibroblasts in scleroderma. "Published figure using CD47 monoclonal antibody (Product # 14-0479-82) 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 Species Mouse
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Nature communications Therapeutic modulation of phagocytosis in glioblastoma can activate both innate and adaptive antitumour immunity. "Published figure using CD47 monoclonal antibody (Product # 14-0479-82) 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 Species Human Dilution 1:50
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[View more IHC references on thermofisher.cn](#)

Immunocytochemistry (2)

JCI insight CD47 prevents the elimination of diseased fibroblasts in scleroderma. "Published figure using CD47 monoclonal antibody (Product # 14-0479-82) 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 Species Mouse
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More applications with references on thermofisher.cn

- Flow (14)
- Neu (2)
- IA (2)
- Misc (1)

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