

CD47 Monoclonal Antibody (B6H12), eBioscience™

Product Details	
Size	25 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_837142

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	1 µg/test	7 Publications
Immunohistochemistry (IHC)	-	2 Publications
Immunohistochemistry (Paraffin) (IHC (P))	Assay-Dependent	-
Immunoprecipitation (IP)	Assay-Dependent	-
Miscellaneous Pubmed (Misc)	-	1 Publication
Neutralization (Neu)	-	2 Publications
Western Blot (WB)	Assay-Dependent	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, 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.

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