

CD180 (RP105) Monoclonal Antibody (MHR73-11), Functional Grade, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Functional Grade, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	MHR73-11
Conjugate	Functional Grade
Form	Liquid
Concentration	1 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	no preservative
Storage conditions	4° C
RRID	AB_469091

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	1 µg/test	-
Functional Assay (FN)	Assay-Dependent	1 Publication

Product Specific Information

Description: The MHR73-11 monoclonal antibody reacts with human CD180 (RP105). This 105 kDa type I transmembrane molecule is a member of the TLR family of proteins characterized by an extracellular domain with leucine-rich repeats and a cytoplasmic domain with homology to the type I IL-1 receptor. RP105 physically associates with another molecule called MD-1 and is expressed on B, monocytes/macrophages, and dendritic cells. Histological studies show that RP105 is expressed mainly on mature B cells in mantle zones, while germinal center cells are either dull or negative. The RP105/MD-1 complex in concert with TLR4 mediates B cell recognition and signaling of LPS. MHR73-11 activates B cells, leading to increases in cell size, expression of the costimulatory molecule CD80, and DNA synthesis. Moreover, ligation of RP105 protects B cells from irradiation- or dexamethasone-induced apoptosis. Thus, RP105 is a signal transduction molecule and plays a role in regulation of B cell growth and death. A significant proportion of circulating B cells in SLE patients is RP105 negative. Loss of RP105 is associated with B cell activation and increased disease activity in SLE patients.

Applications Reported: MHR73-11 has been reported for use in flow cytometric analysis. MHR73-11 has also been reported in in vitro functional studies.

Applications Tested: The MHR73-11 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 μ L. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Storage and handling: Use in a sterile environment.

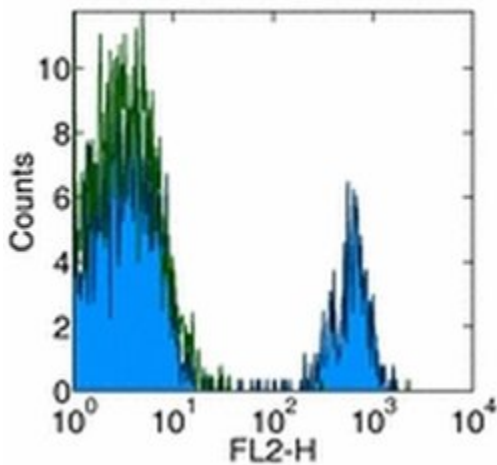
Filtration: 0.2 μ m post-manufacturing filtered.

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

Endotoxin Level: Less than 0.001 ng/ μ g antibody, as determined by LAL assay.

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

Product Images For CD180 (RP105) Monoclonal Antibody (MHR73-11), Functional Grade, eBioscience™



CD180 (RP105) Antibody (16-1809-82) in Flow

Surface staining of normal human peripheral blood cells with Anti-Human CD180 (RP105) PE. Appropriate isotype controls were used (open histogram). Cells in the lymphocyte population were used for analysis.

1 Reference

Functional Assay (1)

Cancer research

Antibody-drug conjugates for the treatment of non-Hodgkin's lymphoma: target and linker-drug selection.

"14-5931 was used in functional experiments to show the role of MKP5 in restraining p38 MAPK-mediated neutrophil oxidant production, thereby preventing LPS-induced vascular injury in mice."

Authors: Polson AG, Calemine-Fenau J, Chan P, Chang W, Christensen E, Clark S, de Sauvage FJ, Eaton D, Elkins K, Elliott JM, Frantz G, Fuji RN, Gray A, Harden K, Ingle GS, Kijavini NM, Koeppen H, Nelson C, Prabhu S, Raab H, Ross S, Slaga DS, Stephan JP, Scales SJ, Spencer SD, Vandlen R, Wranik B, Yu SF, Zheng B, Ebens A

Species
Human

Dilution
Not Cited

Year
2009

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