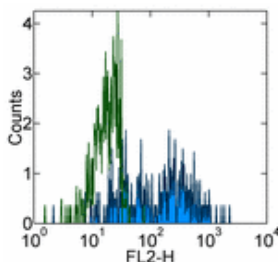


Anti-Human CD93 Purified

Catalog Number: 14-0939

Also Known As: C1qRp, C1q Receptor, C1qR

RUO: For Research Use Only



Staining of normal human peripheral blood cells with 0.25 μ g of Mouse IgG2b κ Isotype Control Purified (cat. 14-4732) (open histogram) or 0.25 μ g of Anti-Human CD93 Purified (filled histogram). Cells in the monocyte gate were used for analysis.

Product Information

Contents: Anti-Human CD93 Purified

REF Catalog Number: 14-0939

Clone: R139

Concentration: 0.5 mg/ml

Host/Isotype: Mouse IgG2b

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer



Temperature Limitation: Store at 2-8°C.



Batch Code: Refer to Vial



Use By: Refer to Vial



Caution, contains Azide

Description

The monoclonal antibody R139 recognizes human CD93, also known as C1qRp. The glycoprotein CD93 binds to C1q, the subunit of the complement protein, mannose binding lectin and pulmonary surfactant protein A. CD93 is predicted to play a role in the clearance of apoptotic cells. Expression of CD93 is confined to myeloid cells with higher expression on monocytes than neutrophils, eosinophils, platelets and endothelial cells. Expression on DC's is downregulated upon maturation. Additionally, CD93 has been shown to define an early bone marrow stem cell population of hematopoietic and hepatic precursors.

The monoclonal antibody R139 blocks C1q-mediated enhancement of phagocytosis.

CD93 can be shed from the cell surface. This phenomenon can be measured using R3 antibody as detection with R139 as capture to detect soluble CD93 by ELISA. The epitope for R139 resides in the EGF domains.

Applications Reported

This R139 antibody has been reported for use in flow cytometric analysis, immunoprecipitation, immunoblotting (WB) under nonreducing conditions, and ELISA.

Applications Tested

This R139 antibody has been tested by flow cytometric analysis of human peripheral blood cells. This can be used at less than or equal to 0.5 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. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Bohlsón SS, Silva R, Fonseca MI, Tenner AJ. CD93 is rapidly shed from the surface of human myeloid cells and the soluble form is detected in human plasma. *J Immunol.* 2005 Jul 15;175(2):1239-47. (R139 R3 ELISA, WB PubMed)

Danet GH, Luongo JL, Butler G, Lu MM, Tenner AJ, Simon MC, Bonnet DA. C1qRp defines a new human stem cell population with hematopoietic and hepatic potential. *Proc Natl Acad Sci U S A.* 2002 Aug 6;99(16):10441-5. (R139, FC PubMed)

Maruyama H, Galvan M, Waffarn F, Tenner AJ. Human cord blood leukocyte innate immune responses to defense collagens. *Pediatr Res.* 2003 Nov;54(5):724-31. (R139, FA, PubMed).

Nepomuceno RR, Tenner AJ. C1qRP, the C1q receptor that enhances phagocytosis, is detected specifically in human cells of myeloid lineage, endothelial cells, and platelets. *J Immunol.* 1998 Feb 15;160(4):1929-35. (R139, FC, PubMed)

Related Products

11-4011 Anti-Mouse IgG FITC
11-4317 Streptavidin FITC
12-4317 Streptavidin PE
13-4013 Anti-Mouse IgG Biotin (Polyclonal)
14-4732 Mouse IgG2b K Isotype Control Purified
14-5892 Anti-Mouse CD93 (AA4.1) Purified (AA4.1)
17-4317 Streptavidin APC

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