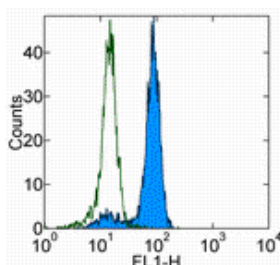


Anti-Human CD98hc FITC

Catalog Number: 11-0982

Also Known As: 4F2hc, SLC3A2

RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of normal human peripheral blood cells with Mouse IgG1 kappa Isotype Control FITC (cat. 11-4714) (open histogram) or Anti-Human CD98hc FITC (filled histogram). Cells in the monocyte gate were used for analysis.

Product Information

Contents: Anti-Human CD98hc FITC


REF **Catalog Number:** 11-0982

Clone: 5E5


Concentration: 5 μ L (0.25 μ g)/test


Host/Isotype: Mouse IgG1, kappa

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

 **Temperature Limitation:** Store at 2-8°C. Do not freeze. Light sensitive material.

LOT **Batch Code:** Refer to Vial

 **Use By:** Refer to Vial

 **Caution, contains Azide**

Description

The monoclonal antibody 5E5 recognizes human CD98hc protein also called CD98 heavy chain, FRP-1 (fusion regulatory protein-1) or 4F2. CD98 is a disulfide-linked complex composed of a heavy chain (a Type II membrane protein) and a light chain of which there are more than six different chains (LAT1, LAT2, γ -LAT1, γ -LAT2, Asc-1, xCT). CD98 can associate directly or indirectly with β 1 integrins, EpCAM and CD147 (EMMPRIN). The function of CD98 is thought to involve amino acid transport, cell fusion concomitantly with increased plasma membrane expression and integrin mediated adhesion. Expression of CD98 is broad including non-hematopoietic cells. In peripheral blood cells, monocytes expression is high while lymphocytes have intermediate levels and granulocytes express very little.

Applications Reported

This 5E5 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This 5E5 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 (0.25 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.

References

Haynes BF, Hemler ME, Mann DL, Eisenbarth GS, Shelhamer J, Mostowski HS, Thomas CA, Strominger JL, Fauci AS. Characterization of a monoclonal antibody (4F2) that binds to human monocytes and to a subset of activated lymphocytes. *J Immunol.* 1981 Apr;126(4):1409-14.

Dalton P, Christian HC, Redman CW, Sargent IL, Boyd CA. Differential effect of cross-linking the CD98 heavy chain on fusion and amino acid transport in the human placental trophoblast (BeWo) cell line. *Biochim Biophys Acta.* 2007 Mar;1768(3):401-10.

Xu D, Hemler ME. Metabolic activation-related CD147-CD98 complex. *Mol Cell Proteomics.* 2005 Aug;4(8):1061-71

Related Products

11-4714 Mouse IgG1 K Isotype Control FITC (P3.6.2.1)

12-1472 Anti-Human CD147 PE (8D12)

51-9326 Anti-Human CD326 (EpCAM) Alexa Fluor® 647 (1B7)

Not for further distribution without written consent.

Copyright © 2000-2010 eBioscience, Inc.

Tel: 888.999.1371 or 858.642.2058 • Fax: 858.642.2046 • www.eBioscience.com • info@eBioscience.com