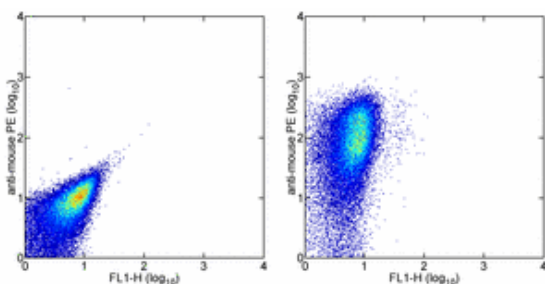


Anti-Human CD47 Purified

Catalog Number: 14-0478

Also Known As: Integrin associated protein, IAP

RUO: For Research Use Only



Staining of normal human peripheral blood cells with 0.25 µg of Mouse IgG1 κ Isotype Control Purified (cat. 14-4714) (left) or 0.25 µg of Purified anti-human CD47 Purified (right) followed by Anti-Mouse IgG PE (cat. 12-4012). Total lymphocytes were used for analysis.

Product Information

Contents: Anti-Human CD47 Purified


REF Catalog Number: 14-0478

Clone: 2D3

Concentration: 0.5 mg/ml


Host/Isotype: Mouse IgG1, κ

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

 Temperature Limitation: Store at 2-8°C.

LOT Batch Code: Refer to Vial

 Use By: Refer to Vial

 Caution, contains Azide

Description

The monoclonal antibody 2D3 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 β3 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). 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.

Applications Reported

This 2D3 antibody has been reported for use in flow cytometric analysis, and immunoblotting (WB) under nonreducing conditions.

Applications Tested

This 2D3 antibody has been tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at less than or equal to 0.5 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. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Subramanian S, Parthasarathy R, Sen S, Boder ET, Discher DE. Species- and cell type-specific interactions between CD47 and human SIRPalpha. *Blood*. 2006 Mar 15;107(6):2548-56. (2D3, FC)

Related Products

14-4714 Mouse IgG1 K Isotype Control Purified

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