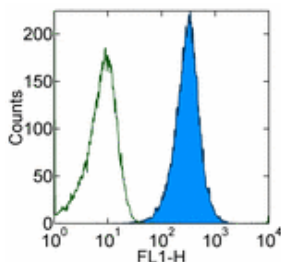


Anti-Human CD47 FITC

Catalog Number: 11-0478

Also Known As: Integrin associated protein, IAP

RUO: For Research Use Only



Staining of normal human peripheral blood cells with Mouse IgG1 κ Isotype Control FITC (cat. 11-4714) (open histogram) or Anti-Human CD47 FITC (filled histogram). Total viable cells were used for analysis.

Product Information

Contents: Anti-Human CD47 FITC


REF Catalog Number: 11-0478

Clone: 2D3

Concentration: Suffix -71/73, 20 μ L (1 μ g)/test; Suffix -41/42, 5 μ L (1 μ g)/test


Host/Isotype: Mouse IgG1, κ

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 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 β 3 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.

Applications Tested

This 2D3 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. Refer to catalog number suffix on the vial for amount to use per test: 71/73 are 20 μ L (1 μ g) per test; whereas 41/42 are 5 μ L (1 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

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

Related Products

11-4714 Mouse IgG1 K Isotype Control FITC

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