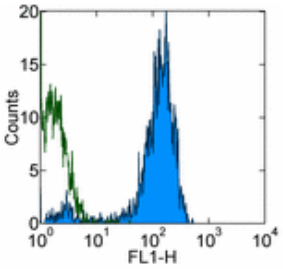
full spectrum cell analysis®
eBioscience®

Anti-Human CD9 Purified

Catalog Number: 14-0098
Also Known As:MIC3, MRP-1
RUO: For Research Use Only



Staining of normal human peripheral blood cells with 0.25 µg of Mouse IgG11 K Isotype Control Purified (cat. 14-4714) (open histogram) or 0.25 µg of Anti-Human CD9 Purified (filled histogram) followed by Anti-Mouse IgG FITC (cat. 11-4011). Total viable cells were used for analysis.

Product Information

Contents: Anti-Human CD9 Purified
REF Catalog Number: 14-0098
Clone: eBioSN4 (SN4 C3-3A2)
Concentration: 0.5 mg/ml
Host/Isotype: Mouse IgG1

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 eBioSN4 monoclonal antibody reacts with human CD9. CD9 is a 24 kDa member of the tetraspanin family, whose members are characterized by the presence of 4 hydrophobic transmembrane domains. CD9 is expressed in platelets, eosinophils, basophils, pre-B cells, activated T cells and neural cell lines. Furthermore, CD9 expression has been associated with a malignant phenotype, including expression on 90% of non T cell acute lymphoblastic leukemia cells and on 50% of chronic lymphocytic and acute myeloblastic leukemias. In platelets, CD9 is expressed in α-granules and through association with the integrin αIIb/βIII plays a role in platelet aggregation, as demonstrated by the use of anti-human CD9 antibodies. CD9 has also been shown to induce the aggregation of pre-B cell lines, and the adhesion and migration of pre-B cells and Schwann cells. Additionally, it has been demonstrated that CD9 is able to provide a co-stimulatory signal for T cells independently of CD28, in the absence of antigen-presenting cells. Binding of the eBioSN4 monoclonal antibody partially cross-blocks binding of another anti-human CD9 monoclonal antibody, MM2/57.

Applications Reported

This eBioSN4 (SN4 C3-3A2) antibody has been reported for use in flow cytometric analysis, immunoprecipitation, and immunohistology staining of frozen tissue sections.

Applications Tested

This eBioSN4 (SN4 C3-3A2) antibody has been tested by flow cytometric analysis of normal human platelets. 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 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

Luo Y, Hara H, Haruta Y, Seon BK. Establishment of ascitic tumor of human pre-B acute lymphoblastic leukemia in nonconditioned nude mice. Cancer Res. 1989 Feb 1;49(3):706-10. (SN4, PubMed)

Ito T, Inaba M, Inaba K, Toki J, Sogo S, Iguchi T, Adachi Y, Yamaguchi K, Amakawa R, Valladeau J, Saeland S, Fukuhara S, Ikehara S. A CD1a+/CD11c+ subset of human blood dendritic cells is a direct precursor of Langerhans cells. J Immunol. 1999 Aug 1;163(3):1409-19.

Related Products

11-4011 Anti-Mouse IgG FITC
11-4317 Streptavidin FITC
12-4317 Streptavidin PE

13-4013 Anti-Mouse IgG Biotin (Polyclonal)
14-4714 Mouse IgG1 K Isotype Control Purified
17-4317 Streptavidin APC

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