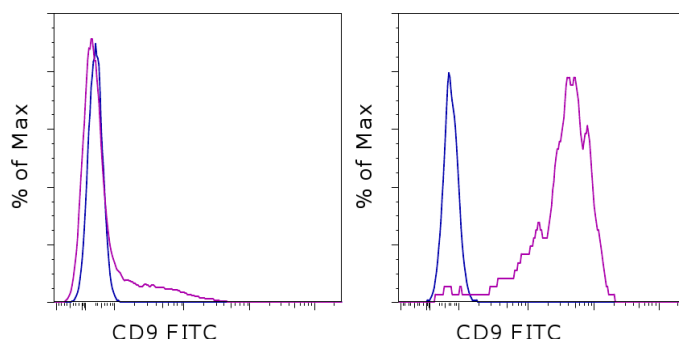


## Anti-Human CD9 FITC

**Catalog Number:** 11-0098

**Also known as:** MIC3, MRP-1

**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) (blue histogram) or Anti-Human CD9 FITC (purple histogram). Cells in the lymphocyte (left) or monocyte (right) gates were used for analysis.

### Product Information



**Contents:** Anti-Human CD9 FITC  
**Catalog Number:** 11-0098  
**Clone:** eBioSN4 (SN4 C3-3A2)  
**Concentration:** 5  $\mu$ L (0.125  $\mu$ g)/test  
**Host/Isotype:** Mouse IgG1



**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.  
**Batch Code:** Refer to vial  
**Use By:** Refer to vial

### 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  $\alpha$ -granules and through association with the integrin  $\alpha$ IIb/ $\beta$ III 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.

### Applications Tested

This eBioSN4 (SN4 C3-3A2) antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5  $\mu$ L (0.125  $\mu$ g) per test. A test is defined as the amount ( $\mu$ g) of antibody that will stain a cell sample in a final volume of 100  $\mu$ L. Cell number should be determined empirically but can range from  $10^5$  to  $10^8$  cells/test.

### 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

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cells. J Immunol. 1999 Aug 1;163(3):1409-19.

### **Related Products**

11-4714 Mouse IgG1 K Isotype Control FITC (P3.6.2.8.1)