

# CD9 Monoclonal Antibody (eBioSN4 (SN4 C3-3A2)), PE, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBioSN4 (SN4 C3-3A2)
Conjugate	PE
Excitation/Emission Max	565/576 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_10854122

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.06 µg)/test	9 Publications

## Product Specific Information

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/ $\beta$ 3 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.

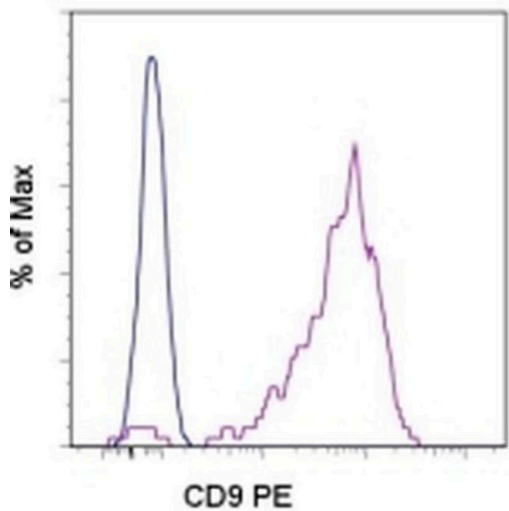
Applications Reported: This eBioSN4 (SN4 C3-3A2) antibody has been reported for use in flow cytometric analysis.

Applications Tested: This eBioSN4 (SN4 C3-3A2) antibody has been pre-titrated and tested by flow cytometric analysis of normal human platelets. This can be used at 5 µL (0.06 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<sup>5</sup> to 10<sup>8</sup> cells/test.

Excitation: 488-561 nm; Emission: 578 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD9 Monoclonal Antibody (eBioSN4 (SN4 C3-3A2)), PE, eBioscience™



**CD9 Antibody (12-0098-42) in Flow**  
Staining of normal human peripheral blood cells with Mouse IgG1 kappa Isotype Control PE (Product # 12-4714-81) (blue histogram) or Anti-Human CD9 PE (purple histogram). Cells in the monocyte gate were used for analysis.

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9 References

Flow Cytometry (9)

<p><b>Cancers</b></p> <p><b>Extracellular Vesicle Membrane Protein Profiling and Targeted Mass Spectrometry Unveil CD59 and Tetraspanin 9 as Novel Plasma Biomarkers for Detection of Colorectal Cancer.</b></p> <p>"Published figure using CD9 monoclonal antibody (Product # 12-0098-42) in Flow Cytometry"</p> <p>Authors: Dash S,Wu CC,Wu CC,Chiang SF,Lu YT,Yeh CY,You JF,Chu LJ,Yeh TS,Yu JS</p>	<p><b>Year</b></p> <p>2022</p>
<p><b>Cells</b></p> <p><b>Anti-Human CD9 Fab Fragment Antibody Blocks the Extracellular Vesicle-Mediated Increase in Malignancy of Colon Cancer Cells.</b></p> <p>"Published figure using CD9 monoclonal antibody (Product # 12-0098-42) in Flow Cytometry"</p> <p>Authors: Santos MF,Rappa G,Fontana S,Karbanová J,Aalam F,Tai D,Li Z,Pucci M,Alessandro R,Morimoto C,Corbeil D, Loricio A</p>	<p><b>Year</b></p> <p>2022</p>

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