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Product datasheet for TA320303

CD9 Mouse Monoclonal Antibody [Clone ID: eBioSN4 (SN4 C3-3A2)]

Product data:

Product Type:	Primary Antibodies
Clone Name:	eBioSN4 (SN4 C3-3A2)
Applications:	FC
Recommended Dilution:	Flow, IHC, IP
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Formulation:	Aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Concentration:	lot specific
Purification:	Affinity purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	CD9 molecule
Database Link:	NP_001760 Entrez Gene 928 Human P21926

View online »

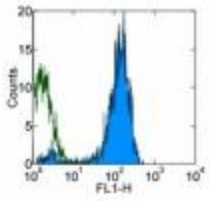
Background: The eBioSN4 monoclonal antibody reacts with human CD9. CD9 is a 24 kDa member of the tetraspanin family, whose members are characterized by the presence of 4 hydrophobic transmembrane domains. CD9 is expressed in platelets, eosinophils, basophils, pre-B cells, activated T cells and neural 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.

Synonyms: BTCC-1; DRAP-27; MIC3; MRP-1; TSPAN-29; TSPAN29

Protein Families: Adult stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Transmembrane

Protein Pathways: Hematopoietic cell lineage

Product images:



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